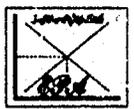
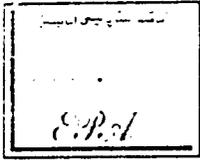




**Economic & Policy Analysis Project
The Economic Wing -- MINFA
Islamabad**



**PAKISTAN
ECONOMIC &
POLICY ANALYSIS
PROJECT**



EPA PROJECT OFFICE

AGRICULTURE SECTOR SUPPORT PROGRAM: PAKISTAN

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AGDAT/PC

USER'S GUIDE

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FOREWORD

Relevant, accurate, timely and easily accessible statistics are the most crucial information in analyzing, formulating recommendations, making decisions, taking action and monitoring food and agricultural development. Through the tireless, career efforts of S. M. Aslam Jafri, recently retired Head, Directorate of Agricultural Statistics, Economic Wing, his staff, and the recently completed and highly successful FAO/UNDP sponsored Agricultural Management Information System (AMIS) Project, MINFA has a "state-of-the-art" capability to assemble, validate, process, store and retrieve, according to a wide variety of formats, most of the agricultural statistics collected by the Provincial agricultural organizations. And the unfolding ability of the Directorate of Economic Research to routinely update annual estimates of such important economic statistics as aggregate measures of agricultural inputs, outputs, and productivity, commodity supply and utilization accounts, gross and net farm income, and marketing margins and the food marketing bill, will greatly add to the statistical capability.

The Directorate of Agricultural Policy and other Economic Wing Staff will gradually have an increasingly rich data system available for identifying, analyzing and making recommendations to the policy decision makers of MINFA and the Provincial Departments of Agriculture. The AMIS is maintained on a local area network such that researchers and policy analysts across the Economic Wing have on-line access to the latest data and computer software for analyzing and reporting agricultural policy issues. But economic researchers, policy analysts and decision makers at the Provincial level and across the Pakistan food and fiber system could greatly benefit from access to the agricultural data in the AMIS but do not have access to the AMIS local area network. Thus, as the Economic Wing and the Economic and Policy Analysis Project staff has worked to maintain and use the AMIS after the completion of the UNDP/FAO project in June, 1992, a logical development was to develop a stand alone personal computer based version of AMIS.

AGDAT/PC represents the first generation PC based version of the AMIS. We think the users will find AGDAT/PC a very useful and easy to use data base. It is one way in which the Economic Wing is striving to reach out to the Provincial grass roots of food and agriculture, to share with agriculturalists and social scientists across Pakistan, the aggregation of data that Provincial governmental, educational, and private organizations and farmers have for so many years contributed to a better understanding of Pakistan agriculture.

Please let us know if you find AGDAT/PC useful and how we can work together to make it better.

A. H. Maan
Director General

1. INTRODUCTION

1.1 What is AGDAT?

AGDAT is a statistical information system that generates fixed-formatted output. It provides time series and cross section data on the agriculture sector of Pakistan and other parts of the world. Various AGDAT components have been developed by the Economic Wing of MINFA, Pakistan, by the FAO, Rome and by the US Dept. of Agriculture, Washington D.C.. Depending upon the component, you have various options to view, print, transform or graphically display data.

Thus, AGDAT acts as an information nucleus from which agricultural data users retrieve data for onward analysis and dissemination.

1.2 Objectives:

Various AGDAT components have been combined in one system in order to;

- Provide users with relevant and official GOP, FAO and USDA agricultural data to serve as the basis for analysis, research, planning and decision-making.
- Strengthen the functional linkages between users and producers of data through a systematic and effective information network.

1.3 Developmental Approach:

The AGDAT design is an evolutionary or bottom-up approach which sees the information system growing in response to needs expressed by users of agricultural data. Modularity is the key to AGDAT development. Starting with PAKSTAT from the Economic Wing MINFA, AGDAT integrates similar components such as AGROSTAT from FAO and PS & D View from the US Dept. of Agriculture. Specifically:

PAKSTAT includes databases containing time series data on area and production of all crops grown in Pakistan since 1970-71. The data is available for the national, provincial and district levels. It also contains time series data on factor inputs involved in crop production such as fertilizer offtake, water availability, land use, area irrigated by different sources and disbursement of agricultural credit. Other PAKSTAT component contain time series data on wholesale/retail and support/procurement prices of agricultural commodities/crops. All these data are retrieved through the programs.

PS&D View 91 was developed by the US Department of Agriculture. It contains official USDA data on production, supply and distribution of major agricultural commodities for most countries.

AGROSTAT/PC contain time series data for all UN member countries relating to population, land use and agricultural inputs, agricultural production and trade, food availability, use and intake, and forestry. It allows for easy transfer of data into most PC analytical software and provides some basic derived parameters for initial interpretation of the time series data provided.

AGDAT has essentially used the bottom-up approach in component development and a plan is envisaged to permit user groups to provide feed back, identifying their specific additional requirements for possible future inclusion in AGDAT.

1.4 Prospective Users:

The Directors, Deputy Directors and Research and Statistical Officers of the Economic Wing, decision makers across the Ministry of Food and Agriculture, university staff members, agricultural students and other agricultural analysts and researchers are the prospective users of the AGDAT through it's user friendly interface menu. All persons engaged in producing/analyzing results of farm management research on the structure and performance characteristics of the agricultural sector for policy analysis and design can benefit from the system.

However, users should have some prior knowledge on the use of micro computers, be familiar with keyboard special keys and functions, and be familiar with a few popular commercial software programs such as databases, spreadsheets and word processing. Users should read the User Manual for each AGDAT component.

1.5 AGDAT Requirements:

Hardware Requirements.

The minimum hardware requirements for AGDAT are:

An IBM PC-AT or compatible computer with (1) 640k of conventional and 384k of extended memory (2) 40mb to 80mb of hard disk depending upon the version of AGDAT to be used and the user requirement for other software (see table 1 for size of each AGDAT version in megabytes) (3) 5.25" and 3.5" high density disk drive and (4) VGA or EGA color monitor. An Epson FX or LQ Series or HP Laserjet or

Deskjet printer is optional.

Software Requirements.

The following commercially available software should be "resident" on the computer:

- i) Dos Version 5.0 or above
- ii) Foxbase+

The following software are optional:

- i) SAS (Statistical Analysis System) or SPSS/PC+
- ii) Lotus 1-2-3 or QuatroPro release 3 or above
- iii) Harvard Graphics Release 3.0 or above
- iv) Word Perfect Release 5.1

1.6 AGDAT Installation.

The AGDAT user interface and associated component systems are supplied by the Directorate of Agricultural Statistics, Economic Wing, Ministry of Food and Agriculture, 9th Floor, Shaheed-i-Millat Secretariat, Islamabad. The user is required to provide the required hardware and commercially available software listed above. Instructions for installation of the software and updating of databases are sent to the user along with the disks. Read through the instructions before installation of these software and databases. In some cases, the EW can provide installation assistance and AGDAT training.

1.7 AGDAT Updates.

AGDAT users will be provided the data and program updates for PAKSTAT on an annual basis. Updates for PS&D View and AGROSTAT may also be made available to the users on an annual basis in December of each year pending formal arrangements with the USDA and FAO.

1.8. AGDAT/PC Version 1.1 and 1.2.

Initially, AGDAT will be limited to PAKSTAT and PS & D View and the necessary related commercial software. AGROSTAT will be added to AGDAT Version 1.2 sometime during the 1992-93 EPA Project year.

TABLE 1
Approximate Hard Disk Requirements for AGDAT and Necessary
Commercial Software (megabytes).

AGDAT/PC Version 1.1:

PAKSTAT	12 mb
PS & D View 91	3 mb
DOS 5.0	3 mb
FOXBASE+	2 mb
LOTUS	5 mb
Free Disk Space	5 mb

Total	30 mb
Minimum Disk Capacity	
Desirable	40 mb

AGDAT/PC Version 1.2:

PAKSTAT	12 mb
PS & D VIEW 91	3 mb
AGROSTAT	20 mb
DOS 5.0	3 mb
FOXBASE+	2 mb
LOTUS OR QUATROPRO	5 mb
SPSS/PC+	10 mb
WORD PERFECT 5.1	5 mb
Free Disk Space	10 mb

Total	70 mb
Minimum Disk Capacity	
Desirable	80 mb

2. AGDAT USER INTERFACE

2.1 The AGDAT User Interface?

AGDAT defines its own user interface as:-

The place or area in the computer at which the AGDAT components; the computer systems (e.g Crops Production, Agricultural Prices, Weather, PS&D View, Agrostat); the commercial software and the human user meet and interact or communicate with each other. It utilizes programs and procedures as the means or facilities through and by which interaction or communication is affected among various components of AGDAT at the interface.

A primary goal is a "user friendly" interface that achieves an essential relationship that permits the user to easily and efficiently manipulate the data.

2.2 Functions of the AGDAT Interface:

The user requires service of the computer system. This service should be accomplished easily, efficiently and should give the user a sense of achievement. The user should also enjoy the activity.

The main function of the interface menu is to enable the user to access various AGDAT components such as PAKSTAT, PS & D View and AGROSTAT with a touch of a button.

Figure 1 diagram the User Interface and various AGDAT components.

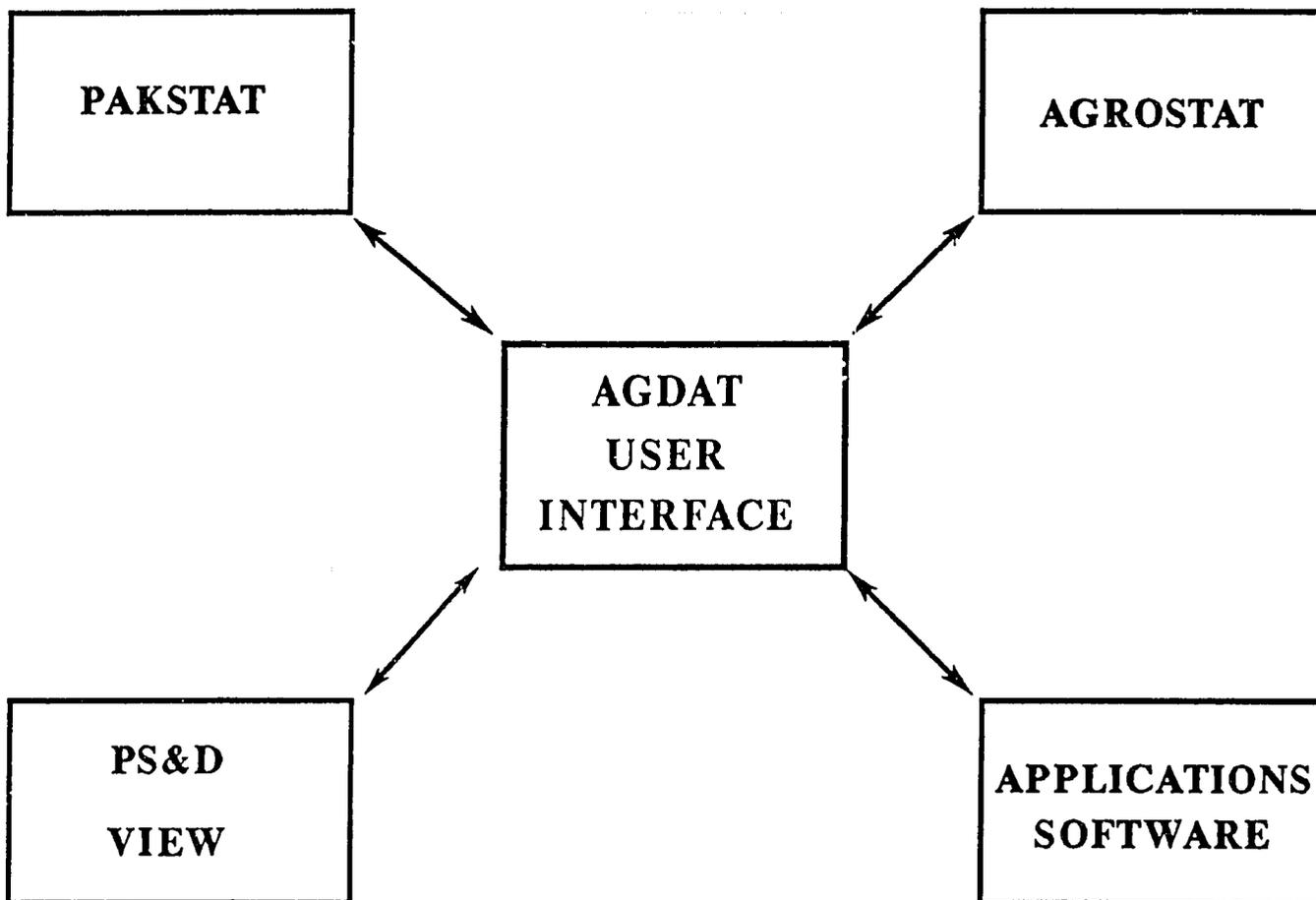


Figure 1: AGDAT USER INTERFACE AND COMPONENTS

3. GETTING STARTED

3.1 The Very Beginning:

- Switch on the CPU and Monitor.
- Verify (by pressing <enter>) the date and time as shown on the computer screen or enter the correct date and time.
- The DOS prompt '>' will appear on the screen.
- Switch on the printer (if your computer has one).
- Type PATH and press <enter> to display the directory path and see if it contains the directory C:\Menu. The path should include C:\MENU directory to enable the user to invoke the AGDAT. If path does not include C:\MENU, type

```
PATH=C:\MENU;←—┘.
```

3.2 Getting Into AGDAT:

Type AGDAT and press <enter>. you are shown the AGDAT Interface Main Menu screen.

3.3 AGDAT Interface Screen Description:

The AGDAT Interface Menu screen is divided into three parts. Below is the description of each part:

1. Title Lines: These contain the title of the "AGRIDATA", the Copyright Information of Brown Bag and the current date and time.
2. Windows Containing the selection items: The Main and up to 4 sub menu windows leading the user to perform the desired tasks through the selection of appropriate menu items.
3. Navigation Line: This line, shown at the bottom of the screen, displays certain hints for the movement of the highlight bar and selection of items or other utilities. The access to Utilities is however, restricted to the AGDAT Manager.

See figure 2 for a view of the AGDAT Interface Menu Screen.

AGRIDATA Copyright (c) 1985-90 Brown-Beg Software

5/09/91

Licensed To:

10:43:35

MAIN MENU

- 1 PAKSTAT
- 2 AGROSTAT
- 3 PS & D View 91
- 4 Applications Software

bar, ← letter or number, F3-Opts, F2-Utills, F10-Logoff, F1-help, ESC-exit

Figure 2: AGDAT Interface Menu Screen.

3.4. Selection of Menu Items:

Selection from the AGDAT Interface Menu items is done as below;

- Move the highlight bar to the desired option with ↑ and ↓ keys and press <enter> or ←↵.
- You can also select the item by typing the number of the option.

4. AGDAT Interface Main Menu.

Items in the AGDAT Interface Main Menu Window are shown in figure 2. Below is the description of each of these options.

4.1. PAKSTAT:

This first option of the AGDAT interface main menu leads to another menu which contains the two components of PAKSTAT. Refer to section 5 on page 11 for description of each of these components and instructions on how to retrieve information through these options.

4.2. PS & D VIEW 91:

This component has been developed by the Economic Research Service, US Department of Agriculture and it contains official USDA data on production, supply and distribution of major agricultural commodities for most countries of the world. Select this option to invoke the program. Refer to PS&D VIEW 91 USER MANUAL for a description and instructions on how to use this AGDAT component.

4.3. AGROSTAT:

This component of AGDAT was developed by FAO of the UN. It contains world data on population, land use and agricultural inputs, agricultural production and trade, Food availability and use and Forestry. You invoke this program by highlighting this option and pressing the ← key. Refer to the AGROSTAT.PC USER MANUAL for a description of the system and instructions on how to use it.

4.4. APPLICATIONS SOFTWARE:

This option leads you to another menu containing a list of the commercial software required for AGDAT. You can use these software through the sub-menu for further analysis and dissemination of data. Refer to section 6 on page 36 for instructions on how to run these software packages.

5. AGDAT Interface Sub Menu 1; PAKSTAT

Items contained in PAKSTAT sub-menu 1 are shown in figure 3.

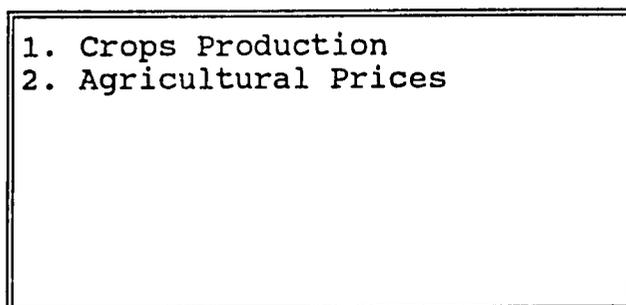


Figure 3. AGDAT Interface Sub Menu 1

Below is the description of each of these PAKSTAT Components;

5.1. CROPS PRODUCTION.

5.1.1. Introduction:

The Crops Production component covers time series data on area, yield and production of more than 70 major and minor crops including fruits, vegetables and condiments being grown in Pakistan. The data is available at the national, provincial and district levels. It also provides data on factor inputs such as fertilizer offtake and irrigation water availability along with land use and agricultural credit disbursement. The databases contain time series from 1970-71 to 1990-91.

5.1.2. Getting Into the "CROPS PRODUCTION" Component.

Selection of the first (Crop Production) item of the AGDAT Interface sub menu 1 (Figure 3) leads you to the Crops Production data menu for retrieval of information about crops and factor inputs utilized for the production of crops (figure 4).

Items in the Crop Production data menu show sub-menus of associated items.

Selecting one of the above items in the Crops Production data menu will result in another menu being displayed that indicates the type of data and/or table formats that are available for that particular item. Details for these sub-menus are presented in the following sections.

Crops Production

1. Wheat Crop Statistics
2. Rice Crop Statistics
3. Cotton Crop Statistics
4. All Crops Statistics
5. Fertilizer Statistics
6. Canal Water Statistics
7. Land Use Statistics
8. Area Irrig. By Sources
9. Agricultural Credit

Figure 4.

SUB-MENU FOR WHEAT PRODUCTION

- WHEAT PRODUCTION DATA OPTIONS**
1. Area: Irrigated/Unirrigated and Varieties
 2. Production: Irrigated/Unirrigated and Varieties
 3. Yield: Irrigated/Unirrigated and Varieties
 4. Area, Prod. & Yield: Irrigated/Unirrigated
 5. Area, Prod. & Yield By Varieties
 6. Area, Prod. & Yield Trend By Varieties
 7. Area, Prod. & Yield trend: Irrigated/Unirrigated

Figure 5.

5.1.3. Wheat Production:

The items 1-7 in figure 5 present various ways of retrieving Wheat Production data from the crops database.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few questions or select one or more items from the list. Refer to Page 27 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output generation has been completed, you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to the Wheat Production sub-menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the 7 items of the Wheat Production data menu.

Sequence of information contained in the database records created by:

Item 1 of Wheat Production data menu:

Crop Code & Name.

Province/District Code & Name.

First Crop Year.

Area (Irrigated, Unirrigated and Total) During First Crop Year.

Second Crop Year.

Area (Irrigated, Unirrigated and Total) During Second Crop Year.

Unit of Measurement of Area.

Item 2 of Wheat Production data menu:

Crop Code & Name.
Province/District Code & Name.
First Crop Year.
Production (Irrig., Unirrig. and Total) During First Crop Year.
Second Crop Year.
Production (Irrig., Unirrig. and Total) During Second Crop Year.
Unit of Measurement of Production

Item 3 of Wheat Production data menu:

Crop Code & Name.
Province/District Code & Name.
First Crop Year.
Yield (Irrigated, Unirrigated and Total) During First Crop Year.
Second Crop Year.
Yield (Irrigated, Unirrigated and Total) During Second Crop Year.
Unit of Measurement of Yield.

Item 4 of Wheat Production data menu:

Crop Code & Name.
Province/District Code & Name.
First Crop Year.
Area (Irrig., Unirrig. and Total) During First Crop Year.
Production (Irrig., Unirrig. and Total) During First Crop Year.
Second Crop Year.
Area (Irrigated, Unirrigated and Total) During Second Crop Year.
Production (Irrigated, Unirrigated and Total) During Second Crop Year.
Units of Measurement of Area & Production.

Item 5 of Wheat Production data menu:

Crop Code & Name.
Province/District Code & Name.
First Crop Year.
Area and Production of the Crop During First Crop Year.
Second Crop Year.
Area and Production of the Crop During Second Crop Year.
Units of Measurement of Area & Production.

Item 6 of Wheat Production data menu:

Crop Code & Name.
Province/District Code & Name.
Crop Year.
Area and Production of the Crop During Crop Year.
Units of Measurement of Area & Production.

Item 7 of Wheat Production data menu:

Crop Code & Name.

Province/District Code & Name.

Crop Year.

Area and Production of the Crop During Crop Year.

Units of Measurement of Area & Production.

SUB-MENU FOR RICE PRODUCTION

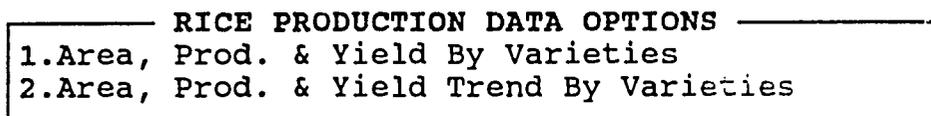


Figure 6.

5.1.4. Rice Production:

The items in figure 6 present two ways of retrieving Rice Production data from the crops database.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few questions or select one or more items from the list. Refer to Page 27 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output generation has been completed, you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to Rice Production sub-menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the 2 items of the Rice Production data menu.

Sequence of information contained in the database records created by:

Item 1 of Rice Production data menu:

- Crop Code & Name.
- Province/District Code & Name.
- First Crop Year.
- Area and Production of Rice Crop During First Crop Year.
- Second Crop Year.
- Area and Production of Rice Crop During Second Crop Year.
- Units of Measurement of Area & Production.

Item 2 of Rice Production data menu:

- Crop Code & Name.
- Province/District Code & Name.
- Crop Year.
- Area and Production of the Rice Crop During Crop Year.
- Units of Measurement of Area & Production.

SUB-MENU FOR COTTON PRODUCTION

COTTON PRODUCTION DATA OPTIONS
1.Area, Prod. & Yield By Varieties
2.Area, Prod. & Yield Trend By Varieties

Figure 7.

5.1.5. Cotton Production:

The items in figure 7 present two ways of retrieving Cotton Production data from the crops database.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few questions or select one or more items from the list. Refer to Page 27 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output generation has been completed, you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to the Cotton Production sub-menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the 2 items of the Cotton Production data menu.

Sequence of information contained in the database records created by:

Item 1 of Cotton Production data menu:

- Crop Code & Name.
- Province/District Code & Name.
- First Crop Year.
- Area and Prod. of Cotton Crop During First Crop Year.
- Second Crop Year.
- Area and Prod. of Cotton Crop During Second Crop Year.
- Units of Measurement of Area & Production.

Item 2 of Cotton Production data menu:

- Crop Code & Name.
- Province/District Code & Name.
- Crop Year.
- Area and Production of the Cotton Crop During Crop Year.
- Units of Measurement of Area & Production.

SUB-MENU FOR ALL CROPS PRODUCTION

- ALL CROPS PRODUCTION DATA OPTIONS —
- 1.Area, Prod. & Yield
 - 2.Area, Prod. & Yield Trend
 - 3.Area, Prod. & Yield of a Crop in All Provinces
 - 4.Area, Prod. & Yield of a Crop for Selective Years
Within Selective Districts/Provinces
 - 5.Area, Prod. & Yield of a Crop for Selective
Districts/Provinces Within Selective Years
 - 6.Crops Grown in a District/Province
 - 7.Area, Prod. & Yield of a Crop: (Irrigated/Unirriga-
ted (for selective districts/prov. & years)
 - 8.Cropped Area Statistics
 - 9.Crop Estimates

Figure 8.

5.1.6. All Crops Production:

The items 1-9 in figure 8 present various ways of retrieving production data for all crops from the crops database.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few questions or select one or more items from the list. Refer to Page 27 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output generation has been completed, you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to the All Crops Production sub-menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the 8 items of All Crops Production data menu.

Sequence of information contained in the database records created by:

Item 1 of All Crops Production data menu:
Crop Code & Name.
Province/District Code & Name.
First Crop Year.

Area and Production of the Crop During First Crop Year.
Second Crop Year.
Area and Production of the Crop During Second Crop Year.
Units of Measurement of Area & Production.

Item 2 of All Crops Production data menu:

Crop Code & Name.
Province/District Code & Name.
Crop Year.
Area and Production of the Crop During Crop Year.
Units of Measurement of Area & Production.

Item 3 of All Crops Production data menu:

Crop Code & Name.
Crop Year.
Area & Production of Punjab in the Crop Year.
Area & Production of Sindh in the Crop Year.
Area & Production of NWFP in the Crop Year.
Area & Production of Balochistan in the Crop Year.
Units of Area & Production of the Crop.

Item 4 of All Crops Production data menu:

Crop Code & Name.
Province/District Code & Name.
Crop Year.
Area and Production of the Crop During the Crop Year.
Units of Measurement of Area & Production.

Item 5 of All Crops Production data menu:

Crop Code & Name.
Crop Year.
Province/District Code & Name.
Area and Production of the Crop During the Crop Year.
Units of Measurement of Area & Production.

Item 6 of All Crops Production data menu:

Province/District Code & Name.
Crop Year.
Crop Code & Name.
Area and Production of the Crop During the Crop Year.
Units of Measurement of Area & Production.

Item 7 of All Crops Production data menu:

Crop Code & Name.
Province/District Code & Name.
Crop Year.
Area (Irrigated, Unirrigated and Total) During Crop Year.
Production (Irrigated, Unirrigated and Total) During Crop Year.
Units of Measurement of Area & Production.

Item 8 of All Crops Production data menu:
Province/District Code & Name.
Crop Year.
Cropped Area During Kharif & Rabi Seasons.
Unit of Measurement of Cropped Area Figures.

SUB-MENU FOR FERTILIZER OFFTAKE

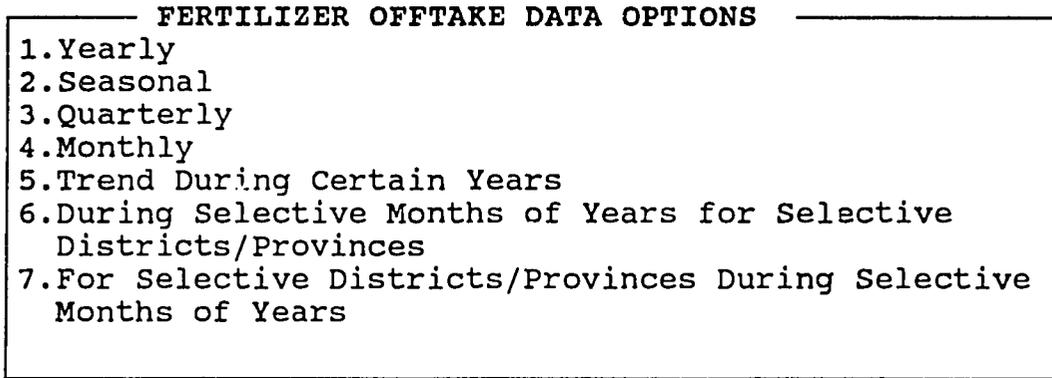


Figure 9.

5.1.7. Fertilizer Offtake:

The items 1-7 in figure 9 present various ways of retrieving Fertilizer Offtake Data from the database.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few questions or select one or more items from the list. Refer to Page 27 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output generation has been completed, you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to the Fertilizer Offtake data sub-menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the 7 items of Fertilizer Offtake data menu.

Sequence of information contained in the database records created by:

Item 1 of Fertilizer Offtake data menu:

Province/District Code & Name.

First Fiscal Year.

Fertilizer Offtake (N,P & K) During First Fiscal Year.

Second Fiscal Year.

Fertilizer Offtake (N,P & K) During Second Fiscal Year.

Remarks.

Item 2 of Fertilizer Offtake data menu:

Province/District Code & Name.

First Fiscal Year.

Fertilizer Offtake (N,P & K) During Season of the First Year.

Second Fiscal Year.

Fertilizer Offtake (N,P & K) During Season of the Second Year.

Season Name for Which Information is included.

Item 3 of Fertilizer Offtake data menu:

Province/District Code & Name.

First Fiscal Year.

Fertilizer Offtake (N,P & K) During Quarter of the First Year.

Second Fiscal Year.

Fertilizer Offtake (N,P & K) During Quarter of the Second Year.

Quarter Name for Which Information is included.

Item 4 of Fertilizer Offtake data menu:

Province/District Code & Name.

First Fiscal Year.

Fertilizer Offtake (N,P & K) During Month of the First Year.

Second Fiscal Year.

Fertilizer Offtake (N,P & K) During Month of the Second Year.

Month Name for Which Information is included.

Item 5 of Fertilizer Offtake data menu:

Province/District Code & Name.

Fiscal Year.

Fertilizer Offtake (N, P & K) During Month/s of the Year.

Remarks.

Item 6 of Fertilizer Offtake data menu:

Province/District Code & Name.

Fiscal Year.

Fertilizer Offtake (N, P & K) During Month/s of the Year.

Names of Month/s of the Year for Which Information is included.

Item 7 of Fertilizer Offtake data menu:

Fiscal Year.

Province/District Code & Name.

Fertilizer Offtake (N, P & K) During Month/s of the Year.

Names of Month/s of the Year for Which Information is included.

SUB-MENU FOR CANAL WITHDRAWALS

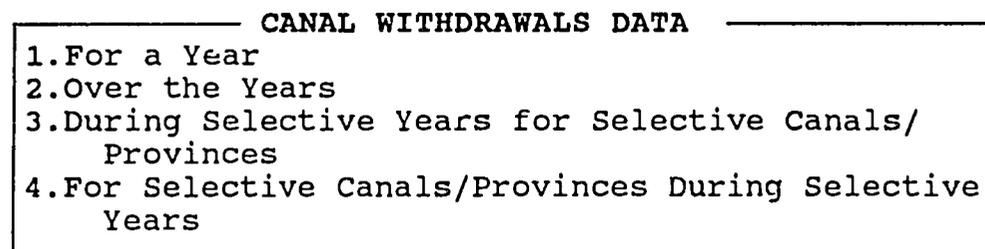


Figure 10.

5.1.8. Canal Withdrawals:

The items 1-4 in figure 10 present various ways of retrieving Canal Withdrawals data from the database.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few questions or select one or more items from the list. Refer to Page 27 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output generation has been completed, you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to the Canal Withdrawals data sub-menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the 4 items of Canal Withdrawals data menu.

Sequence of information contained in the database records created by all options of the Canal Withdrawals menu is:

Province/Canal Code & Name

Fiscal Year

Canal Withdrawals During:

July, August, September, October, November,
December, January, February, March, April, May,
June.

SUB-MENU FOR LAND USE

LAND USE DATA
1. For a Year
2. Over the Years
3. During Selective Years for Selective Districts/ Provinces
4. For Selective Districts/Provinces During Selective Years

Figure 11.

5.1.9. Land Use:

The items 1-4 in figure 11 present various ways of retrieving Land Use data from the database.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few questions or select one or more items from the list. Refer to Page 27 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output generation has been completed, you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to the Land Use data sub-menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the 4 items of Land Use data menu.

Sequence of information contained in the database records created by all options of the Land Use data menu is:

- Province/District Code & Name.
- Fiscal Year.
- Geographical Area.
- Reported Area.
- Forest Area.
- Area Not Available for Cultivation.
- Culturable Waste Area.
- Total Cultivated Area.
- Current Fallow Area.
- Net Sown Area.
- Area Sown More Than Once.
- Total Cropped Area.

SUB-MENU FOR IRRIGATED AREA

- AREA IRRIGATED DATA
1. For a Year
 2. Over the Years
 3. During Selective Years for Selective Districts/
Provinces
 4. For Selective Districts/Provinces During
Selective Years

Figure 12.

5.1.10. Irrigated Area:

The items 1-4 in figure 12 present various ways of retrieving Irrigated Area data from the database.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few questions or select one or more items from the list. Refer to Page 27 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output generation has been completed, you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to the Irrigated Area data sub-menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the 4 items of Irrigated Area data menu.

Sequence of information contained in the database records created by all options of the Irrigated Area data menu is:

- Province/District Code & Name.
- Fiscal Year.
- Area Irrigated By Govt. Canals
- Area Irrigated By Private Canals
- Area Irrigated By Tanks
- Area Irrigated By Wells.
- Area Irrigated By Tube Wells.
- Area Irrigated By Other Means.
- Unit of Measurement of Area.

SUB-MENU FOR AGRICULTURAL CREDIT

<p>Agric. Credit Disb. Data Options</p> <ol style="list-style-type: none">1.For Sources of Credit(By Province and Time)2.For Prov/Agencies (By Source of Loan and Time)3.For Time Periods (By Source of Loan and Prov.)

Figure 13.

5.1.11. Agricultural Credit:

The three items in figure 13 present various ways of retrieving Agricultural Credit data from the database.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few questions or select one or more items from the list. Refer to Page 27 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output generation has been completed you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to the Agricultural Credit data sub-menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the 3 items of Agricultural Credit data menu.

Sequence of information contained in the database records created by all options of the Agricultural Credit data menu:

Time Range.

Source of Credit.

Loans given to selected provinces/agencies

Remarks containing the unit of figures.

5.1.12. HELP FOR RESPONSES TO COMPUTER PROMPTS

While you are working with the Crops Production component to retrieve statistics, you are prompted to respond to certain questions or make selection/s from the options presented. Below is a description of how to respond to these questions or selection menus.

**IF YOU ARE PROMPTED
FOR:**

DO THE FOLLOWING:

- | | |
|--|---|
| (1) Select output destination
i.e. Screen or Printer etc. | Highlight using arrow keys
the required output option and
then press <Enter> |
| (2) (a) Year of Report | Enter Two Digit Fiscal Year or
Crop Year e.g. 1984-85=85. |
| (b) Second Year for
comparison | Enter Two Digit Fiscal year or
Crop year e.g. 1980-81 = 81.
This second year figure is used
to compare the figures of the
report year with this year's
figures. |
| (3) (a) Start Year | Enter Two Digit Fiscal or Crop
year (e.g. 1976-77 = 77) from
when you want to start
displaying the statistics. |
| (b) End Year | Enter Two Digit Fiscal or Crop
year (e.g. 1984-85=85) to when
you want to display/print the
statistics. |
| (4) (a) Crop Category | All Crops being grown in
Pakistan are divided into EIGHT
major categories. Highlight the
category of the Crop for which
you want to display data by
using the Arrow Keys and press
the <Enter>. |
| (b) Crop | When you select a Crop
Category, you are shown all the |

Crops which fall into that category. Highlight (by using ↓ or ↑ Keys) the required Crop and Press the <Enter>.

Sometimes all crops are displayed and you are given the option to select one or more crops. When you are to select more than one crop, do it by highlighting the crop and pressing <Enter>. In this case the <Enter> marks or unmarks the item for selection. To finish the selection press <ESC>.

(5) (a) Select Province

You are shown the provinces of Pakistan. You can select a province by highlighting any province name or "All Provinces" option and Press <Enter>.

Like crops, sometimes you are given the option to select more than one province. Do it by highlighting the province name and pressing <Enter>. In this case <Enter> marks or unmarks the item for selection. To finish the selection process press <ESC>.

(b) Select District

You are shown the districts of Pakistan. You can select a district by highlighting any district name and pressing <Enter>.

When you are given the option to select more than one district, do it by highlighting the district name and pressing <Enter>. In this case <Enter> key marks or unmarks the district for selection. To finish the selection process press <ESC>.

(c) Select Canal

You are shown the Canals of Pakistan. You can select a

canal by highlighting any canal name and pressing <Enter>. When you are given the option to select more than one canal, do it by highlighting the canal name and pressing <Enter>. In this case <Enter> key marks or unmarks the canal for selection. To finish the selection process press <ESC> key.

5.2. AGRICULTURAL PRICES

5.2.1. Introduction:

The AGDAT Agricultural Prices Data component covers time series data on the wholesale / retail prices of 26 agricultural commodities from 1977 onwards. The prices have been collected from 11 major Pakistan cities. Support/Procurement Prices fixed by the government for various crops since 1971 are also available.

5.2.2. Getting into the Agricultural Prices Data:

Selecting the second (Agricultural Prices) item of the AGDAT Interface Sub Menu 1 (Figure 3) leads you to the Agricultural Prices Menu for retrieval of information about wholesale / retail and support / procurement prices of agricultural commodities and crops (Figure 14).

The main menu clearly describes the items available. You can select any task you want to perform or press <ESC> to return to the AGDAT Interface main menu.

```

      AGRICULTURAL PRICES DATA OPTIONS
-----
      WHOLESALE / RETAIL PRICES
1. Weekly Price Situation
2. Weekly/Monthly Average Prices
3. Weekly/Monthly Average Prices (by station)
4. Yearly Prices Summary (by station)
5. Average Prices for Any Period
6. Average Prices for Any Period (by station)
      PROCUREMENT / SUPPORT PRICES
7. By Years and Crops
8. By Crops and Years

```

Figure 14.

5.2.3. Agricultural Prices Data Menu.

The eight items in figure 14 represent different options for retrieving Agricultural Prices Data.

When you select one of these items, the program displays the features it contains, and then prompts you to answer a few

questions or to select one or more items from the list. Refer to Page 33 for help to respond to these prompts.

When all the prompts are answered, the computer reads the database and displays/prints the statistics, creates an image of the printout on the hard disk or creates a database/ASCII file for conversion to other software for further use/analysis of data.

Once the output has been generated, you are asked to press <Y> to continue with the program or any other key to exit from the program. Press <Y> to continue with the program or any other key to go back to the Agricultural Prices Data Menu.

Below is the description of the record contents of the databases/ASCII files which you can create from the eight items of the Agricultural Prices Data Menu.

Sequence of information contained in the database records created by:

Item 1 of the Agricultural Prices:

Commodity Code and Name.

Price Frequency.

Prices During the Weeks.

(The week dates and price types are embedded in the field names).

Item 2 of the Agricultural Prices:

Commodity Code & Name.

Price Frequency.

Prices During the weeks/months.

(The week dates or months and price types are embedded in the field names.)

Item 3 of the Agricultural Prices:

Commodity Code and Name.

Station Name for Which Prices are Given.

Price Frequency.

Price During the Weeks / Months.

(The week dates or months and price types are embedded in the field names.)

Item 4 of the Agricultural Prices:

Commodity Code and Name.

Year.

Month of the Year.

Week Number of the Month.

Price Type.

Station Prices.

Price/s Unit/s.

Item 5 of the Agricultural Prices:

Commodity Code and Name.

Price for the Period.

(Price Type embedded in the price field name)

Start Date of the Period.

End Date of the Period.

Unit/s of the Prices.

Item 6 of the Agricultural Prices:

Commodity Code and Name.

Station for Which Price is collected.

Price of the commodity during the period.

Start Date of the Period.

End Date of the Period.

Price/s Unit/s.

Item 7 and 8 of the Agricultural Prices:

Crop Code

(1010=Wheat, 1020=Rice, 1030=Maize, 2010=Sugarcane,
2020=Cotton, 2060=Sugarbeet, 3010=Gram,
4040=Sunflower, 4050=Soybean, 4060=Safflower,
5030=Onion, 7010=Potato)

Year of harvest of the crop

Province Code

(0=All Provinces, 1=Punjab, 2=Sindh, 3=NWFP,
4=Balochistan)

Location Code

(0=All Locations, 2=Factory Gate, 3=Out Station)

Price in Rupees per 40 Kg

Price Code (1=Procurement Price, 2=Support Price)

5.2.4. HELP FOR RESPONSES TO COMPUTER PROMPTS

While you are working with the Agricultural Prices data component, you are prompted to respond to certain questions or make selection/s from a few options. Below is a description of how to respond to these questions or selection menus.

IF YOU ARE PROMPTED
FOR:

DO THE FOLLOWING:

- | | |
|--|--|
| (1) Select output destination
i.e. Screen or Printer etc. | Highlight using arrow keys the required output option and press <Enter>. |
| (2) Select Price Type
i.e. Wholesale, Retail or Both | Highlight using arrow Keys the required price type option and press <Enter> key. |
| (3) Select Price Frequency
i.e. Weekly, Monthly | Highlight using arrow keys the required Price Frequency option and press <Enter>. |
| (4) Opt for Selection Procedure
i.e. Discrete or Range
Selection | When you are retrieving wholesale or retail prices on weekly or monthly bases you are prompted to opt for discrete or range selection procedure or to quit the selection procedure. If you want to select discrete weeks or months highlight Discrete Option and press <Enter> otherwise highlight Range Option and press <Enter>. |
| (5) Select Commodity/Crop | You are shown all the commodities/crops for which prices are available. You can select these by highlighting any item and pressing <Enter> key. In this case <Enter> marks or unmarks the item for selection. To finish the selection process, press <ESC>. |
| (6) Select Stations | You are shown all the districts of Pakistan for which wholesale/retail prices are |

collected. You can select by highlighting any district name and pressing <Enter>. In this case <Enter> marks or unmarks the district for selection. To finish the selection process press <ESC> key.

(7) Select Years

You are shown a list of Years for which Procurement/Support prices are available for the crops. You can select by highlighting any year and pressing <Enter>. In this case <Enter> marks or unmarks the year for selection. To finish the selection process press <ESC>.

5.3. ERROR RECOVERY:

During the course of data retrieval, if an error is encountered it is displayed on the monitor screen with an instruction to notify the error to the AGDAT Coordinator. In this case the user is required to note down the error and send the message to the Computer Section, Directorate of Agricultural Statistics, Economic Wing, 9th Floor, Shaheed-i-Millat Secretariat, Islamabad for proper action on the error rectification.

6.1. APPLICATIONS SOFTWARE: AGDAT Interface Sub Menu 2:

Selecting item 4 of the AGDAT Interface Main Menu leads you to AGDAT interface sub menu 2. Items in the AGDAT interface sub menu 2 are shown in figure 15.

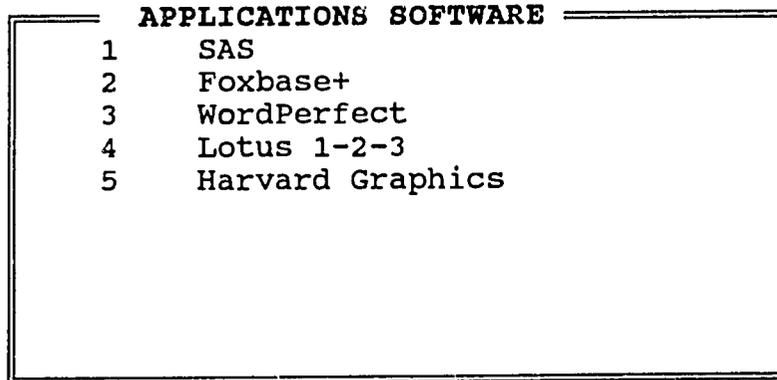


Figure 15: AGDAT Interface Sub Menu 2

When you select any of the applications software as shown in the above figure a prompt for

Drive Directory

appears in the parameter line. It refers to the **drive** and **directory** in which you want to work.

In response to this prompt, **REPLACE** the Drive with your local drive letter such as A:, B:, or C: and **REPLACE** Directory with the path of the directory in which you want to work. After the replacement of parameters in the parameter line press **←** key to proceed further.

7. GETTING OUT OF AGDAT:

When on the AGDAT Interface Main Menu, press <ESC> key and then <Y> to get out of AGDAT System.

8. NOTES:

< > around a notation such as <Y> or <Enter> means to press the Y, ENTER or other designated key.