

*Demo  
prepared by :*



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sponsored by:*



*WELCOME  
to  
The Land Use Database :*

*Demo-5 :  
Land Use Data*

# ***Shown is how to enter Land Use Datasets***

## **(1<sup>st</sup> 3 levels only)**

**Emphasis is put on the following software aspects :**

- 1 The effect of setting options on the Screen layouts.**
- 2 The impact of the Data Entry Filter on the data entry flow.**
- 3 The link between a-priori Land Use Classes and Land Use Datasets.**
- 4 The compulsory fields (parameters) of levels 1, 2, and 3.**

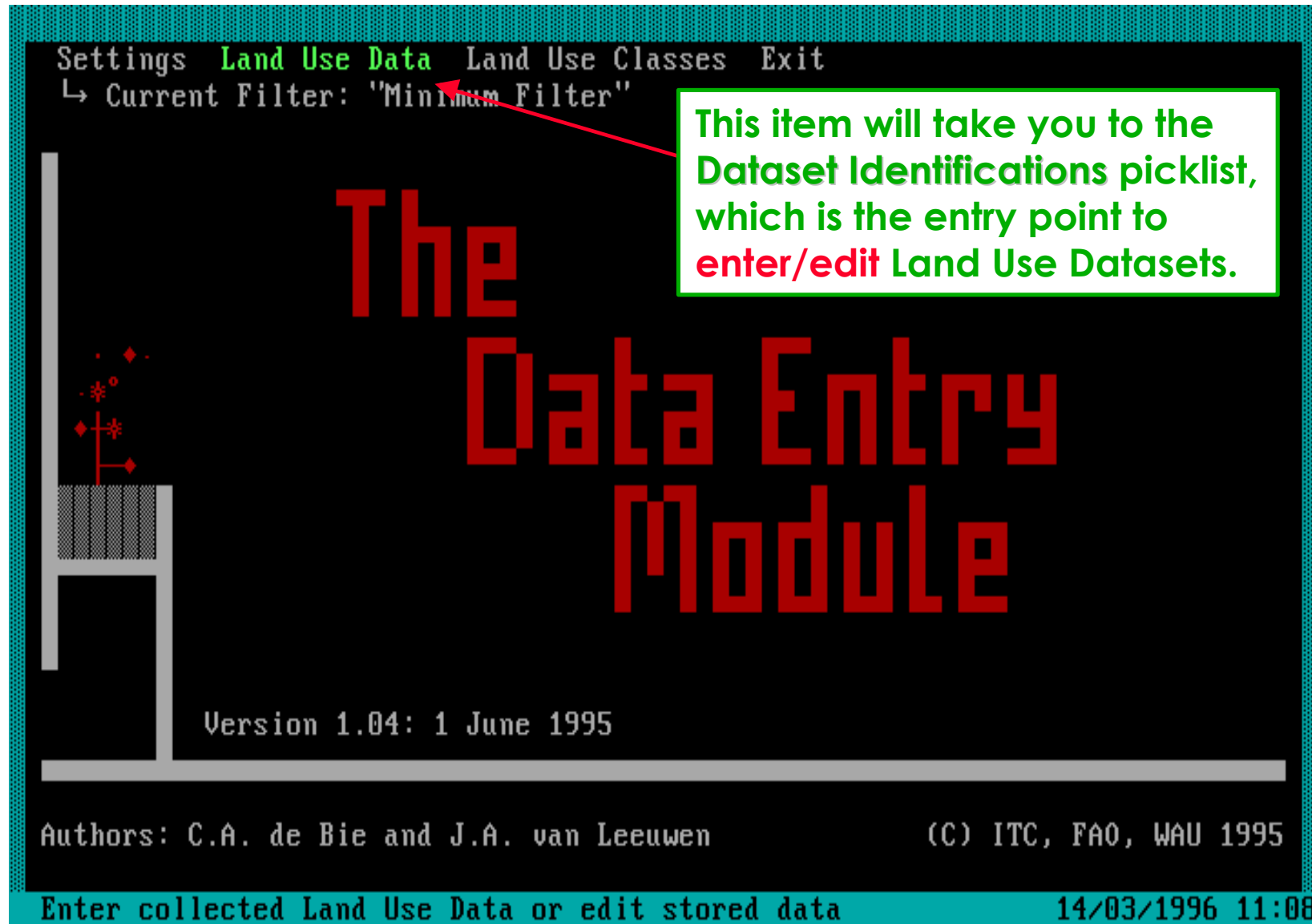
First of all, select the *Data Entry* option of the *Main Menu*.

# The Land Use Database

«Select a Module»

Glossary	-	Glossary; Filters; Repair; Backup/Restore
Data Entry	-	Land Use Data; Land Use Classes; Settings
Query	-	Search, Retrieve and Export stored Data
Exit <Esc>	-	Return to the Operating System

Then, select the *Land Use Data* item of the *Data Entry Menu* . . .



... and you arrive at the **Dataset Identifications** picklist.

```
«Dataset Identifications»
FAO, BOT/91/001 ▶ No:1 ▶ a, Botswana, Ce
FAO, BOT/91/001 ▶ No:2 ▶ a, Botswana, Ce
FAO, BOT/91/001 ▶ No:9 ▶ a, Botswana, Ce
FAO, BOT/91/001 ▶ No:3 ▶ , Botswana, Central, Palapye, Ratholo, Maipaafela »
FAO, BOT/91/001 ▶ No:23 ▶ , Botswana, Central, Palapye, Ratholo, Maipaafela »
FAO, BOT/91/001 ▶ No:24 ▶ , Botswana, Central, Palapye, Ratholo, Maipaafela »
FAO, BOT/91/001 ▶ No:4 ▶ ica, Botswana, Central, Palapye, Ratholo, Maipaafela »
FAO, BOT/91/001 ▶ No:5 ▶ ica, Botswana, Central, Palapye, Ratholo, Maipaafela »
FAO, BOT/91/001 ▶ No:6 ▶ a, Botswana, Central, Palapye, Ratholo, Rakeswela »
FAO, BOT/91/001 ▶ No:7 ▶ a, Botswana, Central, Palapye, Ratholo, Rakeswela »
FAO, BOT/91/001 ▶ No:8 ▶ Botswana, Central, Palapye, Ratholo, Bolelantlokwe »
FAO, BOT/91/001 ▶ No:10 ▶ , Botswana, Central, Palapye, Ratholo, Boratapula »
FAO, BOT/91/001 ▶ No:11 ▶ Botswana, Central, Palapye, Ratholo, Metsimasweu »
FAO, BOT/91/001 ▶ No:12 ▶ Botswana, Central, Palapye, Ratholo, Metsimasweu »
FAO, BOT/91/001 ▶ No:13 ▶ Botswana, Central, Palapye, Ratholo, Metsimasweu »
FAO, BOT/91/001 ▶ No:14 ▶ Botswana, Central, Palapye, Ratholo, Metsimasweu »
FAO, BOT/91/001 ▶ No:15 ▶ Botswa pane »
<Next Series>
```

This picklist contains *references* (Identifiers) of all earlier specified **Land Use Datasets**.

**Project**      **Dataset No.**      **Administrative Area**      **ID. of one Dataset**

Many more Land Use Datasets are present in this Picklist ...



# Software aspect no.-1 :

- 1 **The effect of setting options on the Screen layouts.**
- 2 The impact of the Data Entry Filter on the data entry flow.
- 3 The link between a-priori Land Use Classes and Land Use Datasets.
- 4 The compulsory fields (parameters) of levels 1, 2, and 3.

## 1. The effect of the Dataset Display Selection option.

### «Dataset Identifications»

```
FAO, BOT/91/001 ▶ No:1 ▶ a, Botswana, Central, Palapye, Ratholo, Serulapye »  
FAO, BOT/91/001 ▶ No:2 ▶ a, Botswana, Central, Palapye, Ratholo, Serulapye »  
FAO, BOT/91/001 ▶ No:9 ▶ a, Botswana, Central, Palapye, Ratholo, Serulapye »  
FAO, BOT/91/001 ▶ No:3 ▶ , Botswana, Central, Palapye, Ratholo, Maipaafela »  
FAO, BOT/91/001 ▶ No:23 ▶ , Botswana, Central, Palapye, Ratholo, Maipaafela »  
FAO, BOT/91/001 ▶ No:24 ▶ , Botswana, Central, Palapye, Ratholo, Maipaafela »  
FAO, BOT/91/001 ▶ No:4 ▶ ica, Botswana, Central, Palapye, Ratholo, Mafhoko »  
FAO, BOT/91/001 ▶ No:5 ▶ ica, Botswana, Central, Palapye, Ratholo, Mafhoko »  
FAO, BOT/91/001 ▶ No:17 ▶ ica, Botswana, Central, Palapye, Ratholo, Mafhoko »  
FAO, BOT/91/001 ▶ No:18 ▶ ica, Botswana, Central, Palapye, Ratholo, Mafhoko »  
FAO, BOT/91/001 ▶ No:6 ▶ a, Botswana, Central, Palapye, Ratholo, Rakeswela »  
FAO, BOT/91/001 ▶ No:7 ▶ a, Botswana, Central, Palapye, Ratholo, Rakeswela »  
FAO, BOT/91/001 ▶ No:8 ▶ otswana, Central, Palapye, Ratholo, Bolelantlokwe »  
FAO, BOT/91/001 ▶ No:10 ▶ , Botswana, Central, Palapye, Ratholo, Boratapula »  
FAO, BOT/91/001 ▶ No:11 ▶ Botswana, Central, Palapye, Ratholo, Metsimasweu »  
FAO, BOT/91/001 ▶ No:12 ▶ Botswana, Central, Palapye, Ratholo, Metsimasweu »  
FAO, BOT/91/001 ▶ No:13 ▶ Botswana, Central, Palapye, Ratholo, Metsimasweu »  
FAO, BOT/91/001 ▶ No:14 ▶ Botswana, Central, Palapye, Ratholo, Metsimasweu »  
FAO, BOT/91/001 ▶ No:15 ▶ Botswana, Central, Palapye, Ratholo, Sekgarapane »  
<Next Series>
```

F1=Help F3=Print F5=Copy F10=Edit Enter=Select Ins=Add Del=Delete

This picklist shows **ALL** previously entered Dataset Id s, **but . . .**



... you can also get a Picklist with only the **pre-selected Dataset Id s** for a specific Admin. Area and/or Project.

The screenshot displays two windows from a software application. The top window is titled «Dataset Identifications» and contains a picklist of previously entered Land Use Dataset Id s for LREP-II/b in Asia (none!). The bottom window is titled «Settings» and shows various configuration options. Two callout boxes provide additional context: one points to the 'Dataset-Display Selection: Project' setting in the Settings window, stating that pre-selections are defined by two setting options in Settings; the other points to the Dataset Identifications window, stating that it shows the previously entered Land Use Dataset Id s for LREP-II/b in Asia (none!).

**«Dataset Identifications»**

This picklist shows the previously entered Land Use Dataset Id s for LREP-II/b in Asia ( none! ).

**Pre-selections are defined by two setting options in Settings.**

**«Settings»**

—Common Settings—	
File with Colour Settings	CO1STD.COL
Report Width	80
Coordinates	Decimals
Sound	Yes
—Settings for Data Entry Module—	
Data Entry Filter (see Glossary Module)	Minimum Filter
Structure of One Dataset	x Site-ID's : x LUS Descriptions
Dataset-Display Selection: Admin.Area	Asia, » -
Dataset-Display Selection: Project	LREP-II/b, » -
Dataset-Display Sort Order	Administrative Area
Date Format	dd/mm/yyyy (27/02/1996)
UTM Ellipsoid/Spheroid	Airy 1849

«13»

F1=Help Ins=Add

## 2. The effect of the Dataset Display Sort option.

This picklist is sorted by the glossary codes of the listed Administrative Areas.

```
«Dataset Identifications»
<Previous Series>
FAO, BOT/91/001 ▶ No:2 ▶ a, Botswana, Central,
FAO, BOT/91/001 ▶ No:9 ▶ a, Botswana, Central, Palapye, Ratholo, Maipaafela »
FAO, BOT/91/001 ▶ No:3 ▶ , Botswana, Central, Palapye, Ratholo, Maipaafela »
FAO, BOT/91/001 ▶ No:23 ▶ Botswana, Central, Palapye, Ratholo, Maipaafela »
Ratholo, Maipaafela »
e, Ratholo, Mafhoko »
e, Ratholo, Mafhoko »
ye, Ratholo, Mafhoko »
ye, Ratholo, Mafhoko »
Ratholo, Rakeswela »
Ratholo, Rakeswela »
holo, Bolelantlokwe »
Ratholo, Boratapula »
Ratholo, Metsimasweu »
Ratholo, Metsimasweu »
Ratholo, Metsimasweu »
Ratholo, Metsimasweu »
Ratholo, Sekgarapane »
Ratholo, Sekgarapane »
<Next Series>
```

«Settings»

—Common Settings—	
File with Colour Settings	CO1STD.COL
Report Width	80
Coordinates	Decimals
Sound	Yes
—Settings for Data Entry Module—	
Data Entry Filter (see Glossary Module)	Minimum Filter
Structure of One Dataset	x Site-ID's : x LUS Descriptions
Dataset-Display Selection: Admin.Area	Africa, » -
Dataset-Display Selection: Project	F0 «Dataset-Display Sort Order»
Dataset-Display Sort Order	Ad Administrative Area
Date Format	dd Project Code
UTM Ellipsoid/Spheroid	Ai «2»

«13»

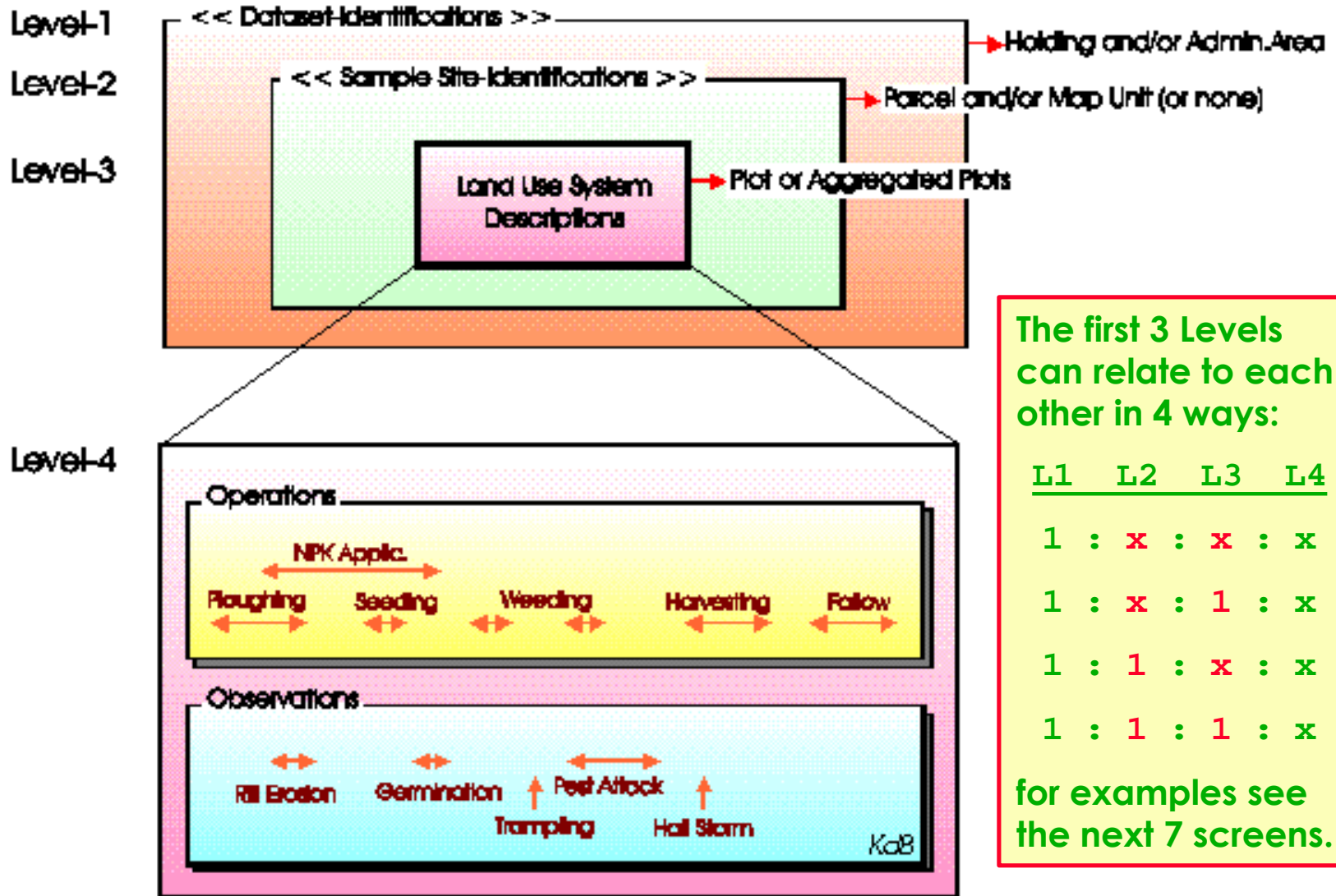
Sorting is defined by a single setting option in Settings.

**3. The effect of the selected Data Entry Filter.**  
 ( More details are given under Software aspect no.-2 )

The screenshot displays a software interface with a list of datasets on the left and a settings menu on the right. The settings menu is titled «Settings» and includes sections for Common Settings and Settings for Data Entry Module. The Data Entry Filter is set to Minimum Filter. A callout box points to this selection, stating: "Few parameters are shown because the Minimum Filter is selected in Settings." Below the settings, the 'Add/Edit a Dataset Identification' screen is partially visible, showing fields for Administrative Area, Project, Dataset Number, and Dataset Type.

The above Edit Screen is shown because the **Ins** key was pressed.

## 4. The effect of the selected Dataset Structure.



The first 3 Levels can relate to each other in 4 ways:

<u>L1</u>	<u>L2</u>	<u>L3</u>	<u>L4</u>
1	x	x	x
1	x	1	x
1	1	x	x
1	1	1	x

for examples see the next 7 screens.

Each of the 4 ways can be selected in the Dataset Structure setting.

«Dataset Identification»  
<Previous Series>  
FAO, BOT/91/001 ▶ No:2  
FAO, BOT/91/001 ▶ No:9  
FAO, BOT/91/001 ▶ No:3  
FAO, BOT/91/001 ▶ No:23  
FAO, BOT/91/001 ▶ No:24  
FAO, BOT/91/001 ▶ No:4  
FAO, BOT/91/001 ▶ No:5  
FAO, BOT/91/001 ▶ No:17  
FAO, BOT/91/001 ▶ No:18 ▶ ica, Botswana, Central, Palapye, Ratholo, Mafhoko »  
FAO, BOT/91/001 ▶ No:6 ▶ a, Botswana, Central, Palapye, Ratholo, Rakeswela »  
FAO, BOT/91/001 ▶ No:7 ▶ a, Botswana, Cen  
FAO, BOT/91/001 ▶ No:8 ▶ Botswana, Centr  
FAO, BOT/91/001 ▶ No:10 ▶ , Botswana, Cen  
FAO, BOT/91/001 ▶ No:11 ▶ Botswana, Cent  
FAO, BOT/91/001 ▶ No:12 ▶ Botswana, Central, Palapye, Ratholo, Metsimasweu »

«Add/Edit a Dataset Identification»  
Administrative Area : >>  
Project : >>  
Dataset Number : 0  
Dataset Type : Actual

«Settings»  
—Common Settings—  
File with Colour Settings CO1STD.COL  
Report Width 80  
Coordinates Decimals  
Sound Yes  
—Settings for Data Entry Module—  
Data Entry Filter (see Glossary Module) Ma  
Structure of One Dataset  
Dataset-Display Selection: Admin.Area »  
Dataset-Display Selection: Project »  
Dataset-Display Sort Order Ad  
Date Format dd  
UTM Ellipsoid/Spheroid Airy 1849

«Structure of One Dataset»  
x x Site-ID's : x LUS Descriptions  
» x Site-ID's : 1 LUS Description  
» 1 Site-ID : x LUS Descriptions  
Ad 1 Site-ID : 1 LUS Description  
«4»  
«13»

Only parameters of Level 1 are shown because of the Dataset Structure selection in Settings.

Per Dataset: (many Site-Id.s and one or many LUS-Id s) per Dataset-Id.

«Dataset Identification»  
 <Previous Series>  
 FAO, BOT/91/001 ▶ No:2  
 FAO, BOT/91/001 ▶ No:9  
 FAO, BOT/91/001 ▶ No:3  
 FAO, BOT/91/001 ▶ No:23  
 FAO, BOT/91/001 ▶ No:24  
 FAO, BOT/91/001 ▶ No:4  
 FAO, BOT/91/001 ▶ No:5  
 FAO, BOT/91/001 ▶ No:17  
 FAO, BOT/91/001 ▶ No:18 ▶ ica, Botswana, Central, Palapye, Katholo, Mathoko »  
 FAO, BOT/91/001 ▶ No:6 ▶ a, Botswana, Ce  
 FAO, BOT/91/001 ▶ No:7 ▶ a, Botswana, Ce  
 FAO, BOT/91/001 ▶ No:8 ▶ otswana, Central

«Settings»  
 —Common Settings—  
 File with Colour Settings C01STD.COL  
 Report Width 80  
 Coordinates Decimals  
 Sound Yes  
 —Settings for Data Entry Module—  
 Data Entry Filter (see Glossary Module) Ma  
 Structure of One Dataset  
 Dataset-Display Selection: Admin.Area »  
 Dataset-Display Selection: Project »  
 Dataset-Display Sort Order Ad  
 Date Format dd  
 UTM Ellipsoid/Spheroid Airy 1849

«Structure of One Dataset»  
 1 x Site-ID's : x LUS Descriptions  
 » x Site-ID's : 1 LUS Description  
 1 Site-ID : x LUS Descriptions  
 1 Site-ID : 1 LUS Description  
 «4»

Parameters of Level 1 and 2 are shown because of the Dataset Structure selection in Settings.

«Add/Edit Levels 1 and 2»  
 —1. Dataset Identification—  
 Administrative Area : »  
 Project : »  
 Dataset Number : 0  
 Dataset Type : Actual  
 —2. Site Identifications—  
 Site Fragmentation : Each LUS Description is valid for one Plot

The Administrative Area in which the described Land Use Systems are located  
 F1=Help F6=Unspecified F10=Save Enter=Select

Per Dataset: many LUS-Id s for one (Site-Id. and Dataset-Id. combination)

«Dataset Identifications»

<Previous Series>

FAO, BOT/91/001 ▶ No:2 ▶ a, Botswana, Ce  
 FAO, BOT/91/001 ▶ No:9 ▶ a, Botswana, Ce  
 FAO, BOT/91/001 ▶ No:3 ▶ , Botswana, Cen  
 FAO, BOT/91/001 ▶ No:23 ▶ , Botswana, Ce  
 FAO, BOT/91/001 ▶ No:24 ▶ , Botswana, Cen  
 FAO, BOT/91/001 ▶ No:4 ▶ ica, Botswana, Central, Palapye, Ratholo, Mafhoko »

«Add/Edit Levels 1, 2 and 3»

—1. Dataset Identification—

Administrative Area : >>  
 Project : >>  
 Dataset Number : 0  
 Dataset Type : Actual

—2. Site Identification—

Site Fragmentation : >>

—3. Land Use System—

A-Priori LU Class :  
 - Species/Service :

«Settings»

—Common Settings—

File with Colour Settings C01STD.COL  
 Report Width 80  
 Coordinates Decimals  
 Sound Yes

—Settings for Data Entry Module—

Data Entry Filter (see Glossary Module) Ma  
 Structure of One Dataset x x Site-ID's : x LUS Descriptions  
 Dataset-Display Selection: Admin.Area » x Site-ID's : 1 LUS Description  
 Dataset-Display Selection: Project » 1 Site-ID : x LUS Descriptions  
 Dataset-Display Sort Order Ad 1 Site-ID : 1 LUS Description  
 Date Format dd  
 UTM Ellipsoid/Spheroid Airy 1849

«Structure of One Dataset»

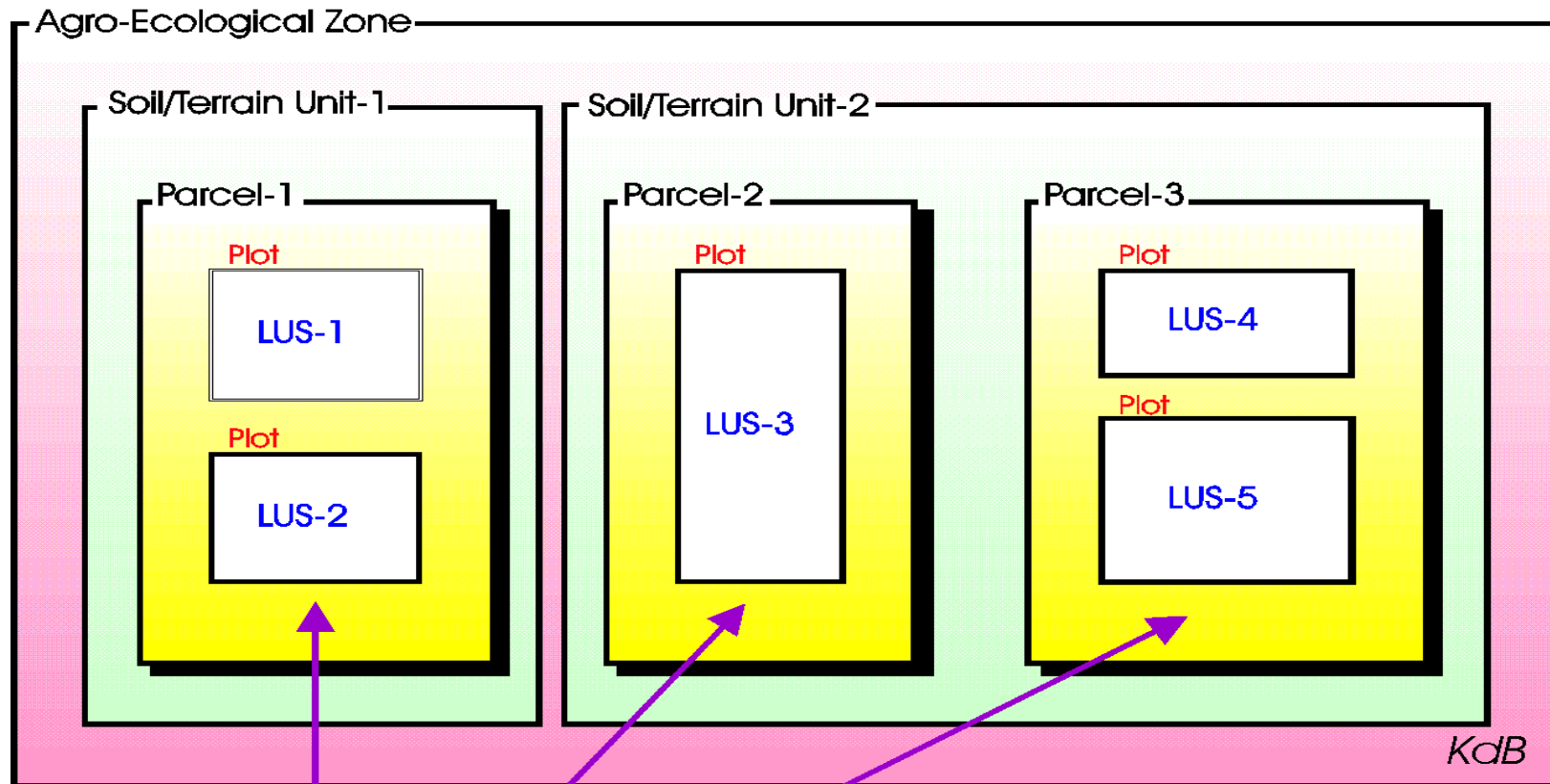
«4»

«13»

The Administrative Area  
 F1=Help F6=Unspecified

Parameters of Levels 1, 2 and 3 are shown because of the Dataset Structure selection in Settings.

Per Dataset: one LUS-Id. for one ( Site-Id. and Dataset-Id. combination ).



## Agricultural Holding

(in Administrative Unit-A)

**All data belonging to one single farm can thus form one single Dataset.**

**Use the 1 : X : X : X setting !**



## Software aspect no.-2 :

- 1 The effect of setting options on the Screen layouts.
- 2 **The impact of the Data Entry Filter on the data entry flow.**
- 3 The link between a-priori Land Use Classes and Land Use Datasets.
- 4 The compulsory fields (parameters) of levels 1, 2, and 3.

The impact when the **Minimum Data Entry Filter** is selected.

The screenshot displays a software interface with a dark background and light text. At the top, a cyan header reads «Dataset Identifications». Below it, a red arrow points from the text box on the right to the interface. A second cyan header reads «Add/Edit Levels 1, 2 and 3». The main content is organized into three numbered sections: 1. Dataset Identification, 2. Site Identifications, and 3. Land Use System Descriptions. Each section contains several parameters with values or options. A vertical cyan double-headed arrow on the right side of the interface indicates the vertical extent of the content.

```
«Dataset Identifications»  
  
«Add/Edit Levels 1, 2 and 3»  
—1. Dataset Identification—  
Administrative Area : >>  
Project : >>  
Dataset Number : 0  
Dataset Type : Actual  
—2. Site Identifications—  
Site Fragmentation : Each LUS Description is valid for one Plot  
—3. Land Use System Descriptions—  
A-Priori LU Class : >>  
- Species/Service : *
```

Few parameters are shown because the **minimum Data Entry Filter** is selected, ..... and ....

Parameters of Levels 1, 2 and 3 are merged because of the **Dataset Structure** selection.

The applicable two setting options are mutually independent .

The impact when the **Maximum Data Entry Filter** is selected.

«Dataset Identifications»

«Add/Edit Levels 1, 2 and 3»

—1. Dataset Identification—

Administrative Area : »

Project : »

Dataset Number : 0

Dataset Type : Actual

Enumeration Date : -

Enumerator's Name : -

Respondent's Name : -

Holder's Name : -

Holding Location - Geographic Coordinates

- Latitude (↓ or y) : » : - [Degrees]

- Longitude (+ or x): » : - [Degrees]

Holding Location - UTM Projection

- Ellipsoid/Spheroid: Airy 1849

- UTM Zone : -

- Northing : - [Meters]

Many more Parameters are included in this Edit Screen

Now *all* parameters are shown because the **maximum Data Entry Filter** is selected.

The 3 Levels are *still* merged because the **Dataset Structure** selection is *not* changed.

Use of another **Filter** can result in another mix of parameters shown.

The whole Data Entry Screen contains then all the following fields.

Each included parameter is fully discussed in the reference manual; use the index (last pages) to find out which sections to read !!

All parameters are shown because the maximum data entry filter is selected.

Parameters of Level 1, 2 and 3 are shown because of the Dataset Structure selection.

```
<<Add/Edit Levels 1, 2 and 3>>
-1. Dataset Identification
Administrative Area : >>
Project           : >>
Dataset Number   : 0
Dataset Type     : Actual
Enumeration Date :
Enumerator's Name :
Respondent's Name :
Holder's Name    :
Holding Location - Geographic Coordinates
- Latitude ($ or y) : >> : - [Degrees]
- Longitude (+ or x) : >> : - [Degrees]
Holding Location - UTM Projection
- Ellipsoid/Spheroid: Airy 1849
- UTM Zone          :
- Northing          : - [Meters]
- Easting           : - [Meters]
Holding Size      : - - - [Min - Max]
- Unit             : >>
- Info Source      : >>
Comments         :
-2. Site Identifications
Site Fragmentation : Each LUS Description is valid for one Plot
Site Name         :
Mapping Unit-ID   :
- Comp./Element-ID : -
- Map Comments    :
Tenancy Arrangement : >>
Cadastral Number  :
```

```
Cadastral Number :
Parcel Size      : - - - [Min - Max]
- Unit          : >>
- Info Source   : >>
Distance to Holding : - - - [Min - Max]
- Unit         : >>
- Info Source   : >>
Comments       :
-3. Land Use System Descriptions
Plot Location - Geographic Coordinates
- Latitude ($ or y) : >> : - [Degrees]
- Longitude (+ or x) : >> : - [Degrees]
Plot Location - UTM Projection
- Ellipsoid/Spheroid: Airy 1849
- UTM Zone          :
- Northing          : - [Meters]
- Easting           : - [Meters]
Plot Size          : - - - [Min - Max]
- Unit             : >>
- Info Source      : >>
- Boundaries       : Based on actual Plot Boundaries
Infrastructures    : *
Soil Sample-ID    :
Oper.Seq. Period  : - - - [Start - End Date]
A-Priori LU Class : >>
- Species/Service : *
Comments         :
Additional Information about this Land Use System Description
F1=Help F10=Save
```

All » fields are linked with the **pre-selected** parts of one Glossary Tree:

«Dataset Identifications»

«Add/Edit Levels 1, 2 and 3»

—1. Dataset Identific «Administrative Areas»

Administrative Area : » E «Europe»

Project : » N «Netherlands, The»

Dataset Number : » Drenthe

Dataset Type : Actua Flevoland

—2. Site Identifications— Friesland

Site Fragmentation : Each Gelderland

—3. Land Use System Descr Groningen

A-Priori LU Class : » Limburg

- Species/Service : \* North Brabant

Holland (North)

Overijssel

Holland (South)

«12»

F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

Only the *pre-selected* glossary items as defined in the *selected Data Entry Filter* are shown.

In the current filter Provinces of The Netherlands are pre-selected.

Only the selected item will be stored as information.

«Dataset Identifications»

«Add/Edit Levels 1, 2 and 3»

—1. Dataset Identific «Administrative Areas»

Administrative Area : » E «Europe»

Project : » N «Netherlands, The»

Dataset Number : Drenthe

Dataset Type : Actua Flevoland

—2. Site Identifications— Friesland

Site Fragmentation : Each Gelderland

—3. Land Use System Descr Groningen

A-Priori LU Class : » Limburg

- Species/Service : \* North Brabant

Holland (North)

Overijssel

Holland (South)

«12»

F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

Use the **F6** key if you do not want to make a selection from the current picklist.

Press **Enter** to select an item.

Parameters

- ... / ...
- Operation
- Operation Period
- Operation Duration
- Task Time
- Labour Inputs
- Material Inputs
- Implements Used
- Main Power Source
- Products/Benefits
- ... / ...

User Objectives

Update Glossary

Parameter Values in Glossary

- << Operation Names >>
- Fertilizer Application — Broadcast
  - Placement — In rows
  - In pockets
  - By Spraying
- (example)

- << Material Inputs >>
- Chemical Fertilizers — Nitrogen
  - Phosphate
  - Potash
  - NPK's
  - Others
- (example)

Select Parameters

Pre-Select Parameter Values

<< Filter >>

Operation	Yes	→	Fertilizer Application	— Broadcast
Operation Period	Yes			— Placement
Operation Duration	No			
Task Time	No			
Labour Inputs	No			
Material Inputs	Yes	→	Chemical Fertilizers	— Nitrogen
Implements Used	No			— Phosphate
Main Power Source	No			
Products/Benefits	Yes			

(example)

Data Entry Screen with only the selected Parameters

Picklists with only the pre-selected Parameter Values

Operation	:	—	<< Fert. Applic. >>
Operation Period	:	—	Broadcast
Material Inputs	:	—	Placement
Products/Benefits	:	—	<< Chem. Fert. >>
			Nitrogen
			Phosphate
			KdB

Storing Data

Data Entry

To re-capture:

1. select in the filter the required parameters
2. upgrade the glossary with all required glossary items
3. pre-select in the filter the required glossary items / branches
4. select the prepared filter in settings
5. start entering your data and if required further improve the glossary and filter

## Software aspect no.-3 :

- 1 The effect of setting options on the Screen layouts.
- 2 The impact of the Data Entry Filter on the data entry flow.
- 3 **The link between a-priori Land Use Classes and Land Use Datasets.**
- 4 The compulsory fields (parameters) of levels 1, 2, and 3.



```
«1. FA0, BOT/91/001 ▶ No:1 ▶ Botswana, Central, Palapye, Ratholo, Serulapye »
«2. No:1 ▶ Each LUS Description is valid for one Plot »
«3. Land Use System Descriptions»
No:1 ▶ **/11/1992 - **/11/1993 ▶ FA0-Test, Mixed-Intercr.of Cereal+Pukin/Melon
«1»
```

```
«Add/Edit a Land Use System Description»
Plot Location - Geographic Coordinates
- Latitude (↓ or y) : » : - [Degrees]
- Longitude (→ or x): » : - [Degrees]
Plot Size : - - [Min - Max]
- Unit : »
- Info Source : »
- Boundaries : Based on actual Plot Boundaries
Infrastructures : *
Oper. Seq. Period : - - [Start - End Date]
A-Priori LU Class : » ←
- Species/Service : *
Comments :
```

At Level 3, i.e. Land Use System Descriptions, you must select a single A-Priori Land Use Class.

The A-Priori Land Use Class to which this Land Use System belongs  
F1=Help F10=Save Enter=Select

The link with earlier defined Land Use Classes is made here !!

The **Filter** defines from which classes a selection can be made.

```
«1. FAO, BOT/91/001 ▶ No:1 ▶ Botswana, Central, Palapye, Ratholo, Serulapye »
«2. No:1 ▶ Each LUS Description is valid for one Plot »
«3. Land Use System Descriptions»
No:1 ▶ **/11/1992 - **/11/1993 ▶ FAO-Test, Mixed-Intercr.of Cereal+Pukin/Melon
«1»
```

```
«Add/Edit a Land Use System Description»
```

```
Plot Location - Geographic Coordinates
```

```
- Latitude (↓ or y) : » : - [Degrees]
```

```
- Longitude (+ or x): » : - [Degrees]
```

```
Plot Size :
```

```
- Unit :
```

```
- Info Source :
```

```
- Boundaries :
```

```
Infrastructures :
```

```
Oper.Seq. Period :
```

```
A-Priori LU Class :
```

```
- Species/Service :
```

```
Comments :
```

```
«A-Priori Land Use Classes»
```

```
FAO-Test »
```

```
«1»
```

In the used filter only  
classes from **FAO-Test**  
were pre-selected.

```
F1=Help F3=Print F4=Search Enter=Select
```

After selection, Species/Services can be specified.

```
«1. FAO, BOT/91/001 ▶ No:1 ▶ Botswana, Central, Palapye, Ratholo, Serulapye »
«2. No:1 ▶ Each LUS Description is valid for one Plot »
«3. Land Use System Descriptions»
No:1 ▶ **/11/1992 - **/11/1993 ▶ FAO-Test, Mixed-Intercr.of Cereal+Pukin/Melon
No:2 ▶ FAO-Test, Single Cropping of Cereals
«2»
```

```
«Add/Edit a Land Use System Description»
Plot Location - Geographic Coordinates
- Latitude (↓ or y) : » : - [Degrees]
- Longitude (+ or x): » : - [Degrees]
Plot Size : - - [Min - Max]
- Unit : »
- Info Source : »
- Boundaries : Based on actual Plot Boundaries
Infrastructures : *
Oper.Seq. Period : - - [Start - End Date]
A-Priori LU Class : FAO-Test, Singl
- Species/Service : *
Comments :
```

Now, this \* field can be selected (grey background)

The Land Use Purpose(s) and Quantities  
F1=Help F10=Save Enter=Select Ins=Add

The selected Class defines which Species can be selected .

```
«1. FAO, BOT/91/001 ▶ No:1 ▶ Botswana, Central, Palapye, Ratholo, Serulapye »
«2. No:1 ▶ Each LUS Description is valid for one Plot »
«3. Land Use System Descriptions»
No:1 ▶ **/11/1992 - **/11/1993 ▶ FAO-Test, Mixed-Intercr.of Cereal+Pukin/Melon
No:2 ▶ FAO-Test, Single Cropping of Cereals
«Add/Edit a Land Use System Description»
- Longitude (+ or x): » : - [Degrees]
Plot Location - UTM Projection
- Ellipsoid/Spheroid: Airy 1849
- UTM Zone : -
- Northing : - [Meters]
- Easting : «Species/Services»
Plot Size : P «Plants; »
- Unit : » Cereals;
- Info Source : » «1»
«Add/Edit a Land Use Purpose and Quantity»
Species/Service : »
Product/Benefit : »
Quantity : - - [Min - Max]
- Unit : »
- Info Source : »
```

Only cereals were defined for the selected class.

Family:  
F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

The Class and Species define which Product can be selected.

```
«1. FAO, BOT/91/001 ▶ No:1 ▶ Botswana, Central, Palapye, Ratholo, Serulapye »
«2. No:1 ▶ Each LUS Description is valid for one Plot »
«3. Land Use System Descriptions»
No:1 ▶ **/11/1992 - **/11/1993 ▶ FAO-Test, Mixed-Intercr.of Cereal+Pukin/Melon
No:2 ▶ FAO-Test, Single Cropping of Cereals
«Add/Edit a Land Use System Description»
- Longitude (+ or x): » : - [Degrees]
Plot Location - UTM Projection
- Ellipsoid/Spheroid: Airy 1849
- UTM Zone : -
- Northing : - [Meters]
- Easting : «Products/Benefits/Materials»
Plot Size : P «Plant Produce»
- Unit : » Vegetative parts »
- Info Source : » Flowers/Fruits/Seeds »
«Add/Edit a Land Use Purpose»
Species/Service : Plants, Cereals, » -
Product/Benefit : »
Quantity : - - [Min - Max]
- Unit : »
- Info Source : »
```

The products defined for cereals for the selected class.

F1=Help F3=Print F4=Search F6=Unspecified Enter=Select

## Software aspect no.-4 :

- 1 The effect of setting options on the Screen layouts.
- 2 The impact of the Data Entry Filter on the data entry flow.
- 3 The link between a-priori Land Use Classes and Land Use Datasets.
- 4 **The compulsory fields (parameters) of levels 1, 2, and 3.**

There are many built-in checks, like the one shown below.

```
«Dataset Identifications»
«Add/Edit Levels 1, 2 and 3»
- Longitude (+ or x): » : -
Plot Location - UTM Projection
- Ellipsoid/Spheroid: Airy 1849
- UTM Zone : - [ ]
- Northing : - [Meters]
- Easting : - [Meters]
Plot Size : - - - [Min - Max]
- Unit : »
- Info Source : »
- Boundaries : Based on actual Plot Boundaries
Infrastructures : * [ ]
Soil Sample-ID : - [ ]

The Administrative Area must be specified, or entered as "Unspecified"
The Project must be specified, or entered as "Unspecified"
The Dataset Number must be larger than 0
The A-Priori Land Use Class must be specified, or entered as "Unspecified"
«Press <Enter>»

F1=Help
```

By pressing the **F10** key you save the information as defined in the Data Entry Screen.

A **warning** will appear if compulsory fields are not as yet specified.

After storing the data, a new **reference** to that dataset is added.

```
«Dataset Identifications»  
» - ▶ No:1 ▶ Europe, Netherlands, The, Gelderland, Wageningen, » -      »  
                                                                                   «1»
```

New reference  
to just entered  
data.

F1=Help F3=Print F5=Copy F10=Edit Enter=Select Ins=Add Del=Delete



# Some last remarks .....

- 1 The effect of setting options on the Screen layouts.
- 2 The impact of the Data Entry Filter on the data entry flow.
- 3 The link between a-priori Land Use Classes and Land Use Datasets.
- 4 The compulsory fields (parameters) of levels 1, 2, and 3.

For \* fields, you can specify several items, e.g. roads, terraces, . . .

```
«1. FA0, BOT/91/001 ▶ No:1 ▶ Botswana, Central, Palapye, Ratholo, Serulapye »
«2. No:1 ▶ Each LUS Description is valid for one Plot »
«3. Land Use System Descriptions»
No:1 ▶ **/11/1992 - **/11/1993 ▶ FA0-Test, Mixed-Intercr.of Cereal+Pukin/Melon
No:2 ▶ FA0-Test, Single Cropping of Cereals
«Add/Edit a Land Use System Description»
- Longitude (+ or x): » : - [Degrees]
Plot Location - UTM Projection
- Ellipsoid/Spheroid: Airy 1849
- UTM Zone : -
- Northing : - [Meters]
- Easting : - [Meters]
Plot Size : - - [Min - Max]
- Unit : »
- Info Source : »
- Boundaries : Based on actual
Infrastructures : *
«Add/Edit an Infrastructure»
Infrastructure : »
Quantity : - -
- Unit : »
- Info Source : »
```

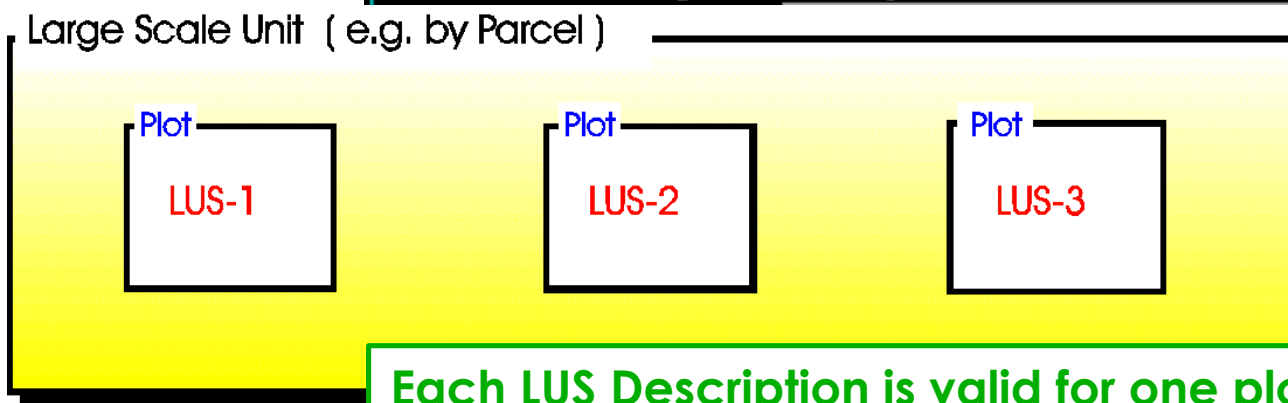
Existing Infrastructures which are or may be used during the Operation Sequence  
F1=Help F10=Save Enter=Select

Selecting a \* field will open a second Edit Screen.  
After saving the specified item, a new \* will appear, etc.

## Plot Aggregation or Site Fragmentation :

```
Levels 1, 2 and 3»
Dataset Identification
Administrative Area : >>
Project : >>
Dataset Number : 0
Dataset Type : Actual
-2. Site Identifications
Site Fragmentation : Each LUS Description is valid for one Plot
-3. Land Use System Descriptions
```

Large Scale Unit ( e.g. by Parcel )



Each LUS Description is valid for one plot.

Small Scale Unit ( e.g. by Holding, Map Unit, and/or Admin. Area )



Each LUS Description is Generalised for Several Aggregated Plots.

At Level-2 (Site-Id) one of the two depicted options must be selected !

Use of the **Enter** key will take you to **Level 4** of this Dataset Id. . . .

```
«Dataset Identifications»  
» - ▶ No:1 ▶ Europe, Netherlands, The, Gelderland, Wageningen, » -      «1»
```

As reminder the present settings are shown :

```
«Settings»  
—Common Settings—  
File with Colour Settings          C01STD.COL  
Report Width                       80  
Coordinates                        Decimals  
Sound                              Yes  
—Settings for Data Entry Module—  
Data Entry Filter (see Glossary Module) Ma «Structure of One Dataset»  
Structure of One Dataset           x x Site-ID's : x LUS Descriptions  
Dataset-Display Selection: Admin.Area » x Site-ID's : 1 LUS Description  
Dataset-Display Selection: Project  » 1 Site-ID : x LUS Descriptions  
Dataset-Display Sort Order         Ad 1 Site-ID : 1 LUS Description  
Date Format                         dd «4»  
UTM Ellipsoid/Spheroid            Airy 1849 «13»
```

Current Dataset Structure setting  
(levels 1, 2, 3 are merged)

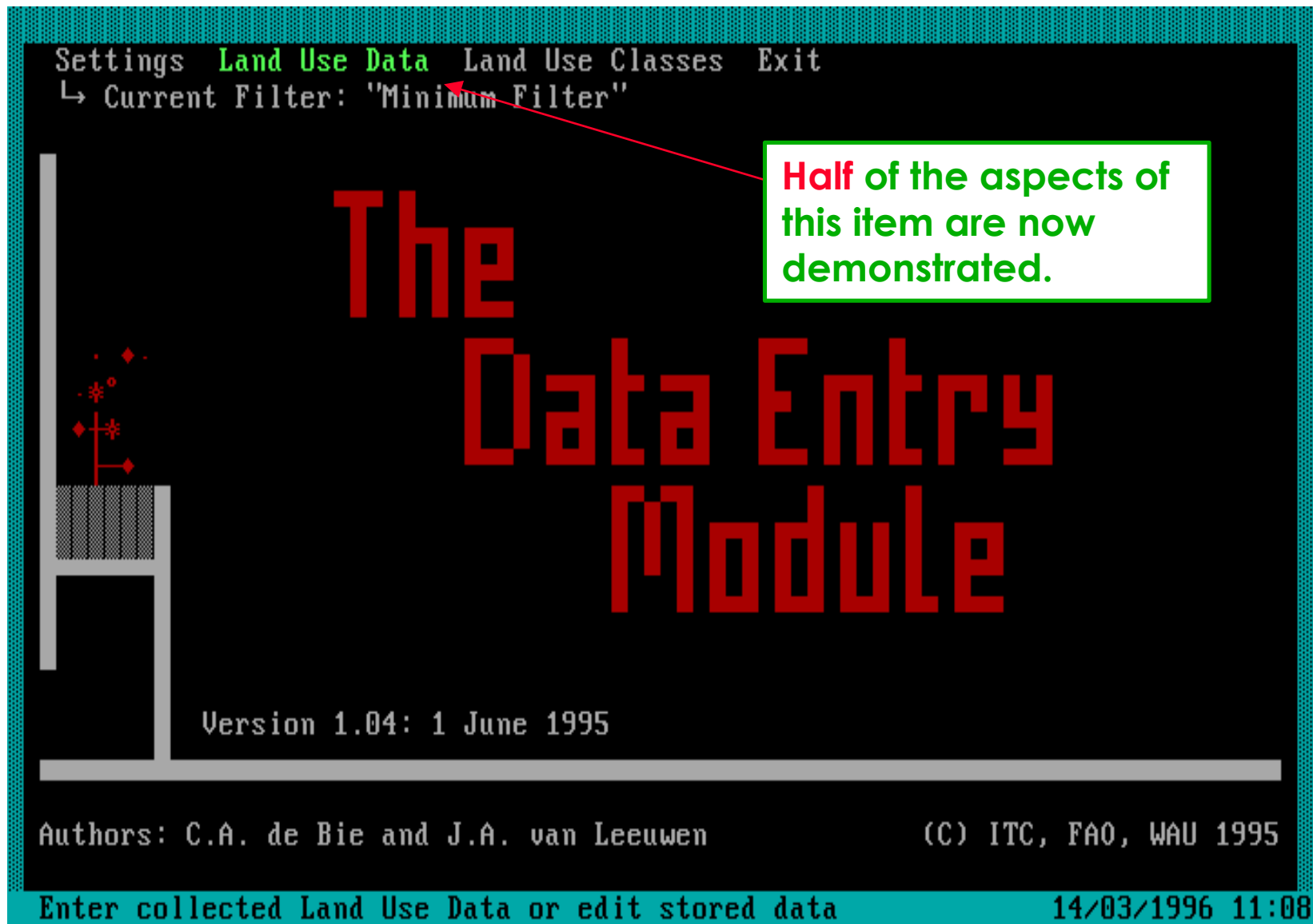
F1=Help F3=Print F5=Copy F10=Edit Enter=Select Ins=Add Del=Delete

Shown below are two empty picklists at **Level 4**.  
One for **Operations-Id. s** and one for **Observations Id. s**.

```
<<1.  >> - ▶ No:1 ▶ Europe, Netherlands, The, Gelderland, Wageningen, >> - >>  
<<2.  No:1 ▶ Each LUS Description is valid for one Plot >>  
<<3.  No:1 ▶ FAO-Test, Single Cropping of Cereals >>  
<<4.  Operations and Observations>>  
<<Operations>>-----  
<<Observations>>-----  
                                                                <<2>>
```

**Demo-6 will continue explaining  
these two options.**

F1=Help F3=Print F5=Copy F10=Edit Ctrl-Ins=Add Obs. Ins=Add Oper. Del=Delete



This is the end of the demo on Land Use Data: Part-1 . . .



# The Land Use Database

End of Demo-5 .... Thank YOU

