

User Manual UAE-NFIS Data Operators

By

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Abbreviations

A	Accuracy in %
Artfish	Approaches, Rules and Techniques for Fisheries Monitoring
CE or C/E	Catch/Effort
CPUE	Catch Per Unit Effort
CV	Coefficient of variation in %
DB	Database
DGC	Data Group Code
EAD	Environment Agency Abu Dhabi
EU	European Union
FAO	Food and Agriculture Organization of the United Nations
FIS	Fisheries Information System
FS	Frame Survey
IT	Information Technology
NFIS	National Fisheries Information System
PBA	Probability Boat Active
SF	Standardization factor
SUI	Sampling Uniformity Index
WB	World Bank

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Preface

Effective storage, processing and diffusion of data on catch, fishing effort, first-sale prices and average fish weight are key factors for providing appropriate services to users involved in fisheries statistical studies. This means that a statistical programme that operates on a regular basis must be based on robust and sustaining computer systems and IT technology.

This document is the second of three computer guides and will be used by the UAE-NFIS data operators. The first document concerns exclusively the UAE-NFIS administrator. The third document is intended for privileged users. All three documents are prepared under the current assignment and as a principal component of the UAE National Fisheries Information System (UAE-NFIS).

UAE-NFIS comes with online HELP screens that can be activated during login. The online tutorial is as detailed as the present document; however a hardcopy manual is usually part of the system documentation. Experience shows that after 1-2 weeks of regular operations data operators can master all functions without referring to either the reference manual or the online HELP.

It is recommended that the data operators become conversant with the Privileged Users' services manuals that will be published separately.

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1 Introduction

This Operations Guide explains briefly the ways of inputting sample data relating to landings and fishing effort. It further describes the manner in which catch/effort estimates are produced, along with a brief description of the reporting functions.

UAE-NFIS can run from any device (desktop or laptop, tablet, SmartPhone, IPAD, etc.) that has access to the internet. No additional software need be installed locally.

Starting UAE-NFIS on the internet is done by typing:

<https://uae-nfis.ead.ae/uae/uae-nfis.php>

The starting screen is shown in Fig. 1.1.

UAE-NFIS operations are broadly divided into four groups: Administration, Data Operations, Privileged Users and Public Users. The first group of operations (administrator) is performed with the purpose of setting-up, maintaining and diffusing system standards, primary data and catch/effort estimates using basic internet services. Actual work on catch/effort samples collected in the field is done by Data Operators on a decentralized basis. Data Operators use the functions of UAE-NFIS to input samples and formulate monthly catch/effort estimates of local scope. Such data is instantly reflected on the database using internet connections and services.



Figure 1.1. UAE-NFIS home page

2 Data Operators' functions

Existing databases (year-month periods)
If the box is empty no databases have been created.

Data type	Records	Errors
2018 01 B		
Major Strata	1	
Minor Strata	4	
Sites and ports	7	
Boats and gears	8	
Species	139	
Fishing Grounds	256	
Fleet data	38	
Weight and Value Units	Kg , AED	
Landing summaries	13	
Species catch	17	
Effort	11	
Estimates	8	
2017 12 F		

Selection of a period

Data Processing

Effort
 Landings

Show species without prices

Estimation process

Include nul estimates
 Only non-zero estimates

Submit selection :

Privileged Users' Functions
 (Please use the above link for privileged access to reports and data)

The databases on the left are marked as follows: : -> ? = Newly created and empty , -> R = Released to operators for inputting
 -> F = Finalized -> R = Blocked for ADMIN work -> H = Moved to history

Figure 2.1. The data operators' screen

Data Operators and Supervisors (DOPS) are in charge of inputting into the UAE-NFIS database data relating to catch and fishing effort. Computer operations are carried out on a daily basis at each outpost.

After logging-in DOPS may select a database from a list of available (released) periods. Only periods that are marked (R - Released) can be accessed for inputting.

Selection of a period is followed by the type of inputting desired, i.e. Effort or Landings.

Below these inputting functions there are read-only functions including:

- Estimation reports.
- Working Reports.

3 Effort data

Effort data will automatically be selected by the system to show only sites pertaining to the Data Group Code (DGC) of the Data Operators. The DGC is controlled by the administrator and its purpose is to assign geographical responsibility to data operators and supervisors. This means that these users cannot access samples relating to sites with a different DGC.

Sites and boat-gear types can be filtered in order for inputting to “lock in” into a specific set of site-boat/gear combination, so as to avoid the recording of information under wrong site-boat/gear classifications. This option is recommended for regular inputting sessions.

Home		Data Operators' Functions
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Selection of sites and boat / gear types

Please select a site. A blank will select all sites.

Delma Island / جزيرة دلما
▼

Please select a boat / gear type. A blank will select all types.

Lansh - Gargour / لنش - قرقور
▼

Figure 3.1. Filtering of ports and boats-gears for effort inputting

Users may filter the site only and leave all boats/gears to be included, or focus on only one boat/gear type and include all sites. By not specifying any site or a boat/gear the system will make available all records pertaining to the operator’s Data Group Code (DGC). This is actually the case in this example since there were no effort data to show for the selection of Figure 3.1.

Figure 3.2 illustrates an example of effort records. The top entry is a blank record intended to be completed and inserted into the database; it is thus shown in dark blue background to make it evident that it concerns a new insertion.

Existing records can be edited and/or deleted on a multiple basis.

The following considerations apply:

- Due attention to the day of sampling. If unchanged it will affect the temporal accuracy.

- Likewise the data collector should be specified correctly, as this entry affects workload statistics.
- Days worked in past week are indicated from a drop-down list.

Pressing the Submit button will generate a summary of insertions, deletions and replacements.

Home		Privileged User		Data Operators' Functions		
	Sila السلع	Boats Active	Day Approach - Days at sea			
Day : 15	Tarad - Hadaq حذاق - طراد	Boats Examined	In month	In 10 days	In week	
Faisal Al Hammadi فيصل الحمادي						
0013	Sila السلع	Boats Active	Day Approach - Days at sea			Mark record for deletion <input type="checkbox"/>
Day : 15	Tarad - Hadaq حذاق - طراد	Boats Examined	In month	In 10 days	In week	2018/01/22 Faisal Ali Al Hammadi
Faisal Al Hammadi فيصل الحمادي					6	
0012	Sila السلع	Boats Active	Day Approach - Days at sea			Mark record for deletion <input type="checkbox"/>
Day : 14	Tarad - Hadaq حذاق - طراد	Boats Examined	In month	In 10 days	In week	2018/01/22 Faisal Ali Al Hammadi
Faisal Al Hammadi فيصل الحمادي					5	
0011	Sila السلع	Boats Active	Day Approach - Days at sea			Mark record for deletion <input type="checkbox"/>
Day : 14	Tarad - Hadaq حذاق - طراد	Boats Examined	In month	In 10 days	In week	2018/01/22 Faisal Ali Al Hammadi

Submit data and update

Figure 3.2. Input screen for fishing effort

4 Landings data

Landings will automatically be selected by the system to show only sites pertaining to the Data Group Code (DGC) of the Data Operators. The DGC is controlled by the administrator and its purpose is to assign geographical responsibility to data operators and supervisors. This means that these users cannot access samples relating to sites with a different DGC.

Sites and boat-gear types can be filtered in order for inputting to “lock in” into a specific set of site-boat/gear combination and thus avoid the recording of information under wrong site-boat/gear classifications. The filtering approach is identical to that used for effort data and is shown in Figure 3.1 of previous section. This function is recommended for repeated inputting sessions.

Users may filter the site only and leave all boats/gears to be included, or focus on only one boat/gear type and include all sites. Likewise by not specifying any site or a boat/gear the system will make available all records pertaining to the operator’s DGC. The last two options are not recommended for regular inputting sessions.

Figure 4.1 illustrates an example of selected landings records.

Home		Data Operators' Functions			Insert a new landing	
Sample no.	Site	Total (all species)	Operations			Error
Day	Boat-Gear type	Raising Factor	Gear units	Duration (days)	Hours of fishing	Updated
000019	Sila المصنع	200	Select to edit <input type="radio"/>	Select to delete <input type="radio"/>	Unmark selection <input type="radio"/>	
13	Tarad - Hadaq طراد - حداق		0	0.5	0	2017/12/22 CS
000018	Sila المصنع	300	Select to edit <input type="radio"/>	Select to delete <input type="radio"/>	Unmark selection <input type="radio"/>	
12	Tarad - Hadaq طراد - حداق		0	1	6	2017/11/16 Faisal Ali Al Hammadi
000017	Al Sadar المصنع	300	Select to edit <input type="radio"/>	Select to delete <input type="radio"/>	Unmark selection <input type="radio"/>	
27	Tarad - Hadaq طراد - حداق		0	1	0	2017/11/15 Yousof Al Hammadi
000016	Al Sadar المصنع	500	Select to edit <input type="radio"/>	Select to delete <input type="radio"/>	Unmark selection <input type="radio"/>	
19	Tarad - Hadaq طراد - حداق		0	1	0	2017/11/15 Yousof Al Hammadi
000015	Al Sadar المصنع	400	Select to edit <input type="radio"/>	Select to delete <input type="radio"/>	Unmark selection <input type="radio"/>	
19	Tarad - Hadaq طراد - حداق		0	1	0	2017/11/15 Yousof Al Hammadi
000014	Al Sadar المصنع	150	Select to edit <input type="radio"/>	Select to delete <input type="radio"/>	Unmark selection <input type="radio"/>	
19	Tarad - Hadaq طراد - حداق		0	1	0	2017/11/15 Yousof Al Hammadi
000013	Al Sadar المصنع	200	Select to edit <input type="radio"/>	Select to delete <input type="radio"/>	Unmark selection <input type="radio"/>	
19	Tarad - Hadaq طراد - حداق		0	1	0	2017/11/15 Yousof Al Hammadi

Submit selection :

Figure 4.1. List of summary landings

To insert a new landing users click on the top right link “Insert a new landing”.

To edit an existing record the “select to edit” mark is used followed by pressing the “Submit” button.

There is also available a delete option that applies on one record at a time.

Whether the choice has been an insertion or editing, the screen of Figure 4.2 is made available for landings data.

The following considerations apply:

LANDING SUMMARY

- Due attention to the day of sampling. If unchanged it will affect the temporal accuracy.
- Likewise the data collector should be specified correctly, as this entry affects workload statistics.
- Duration should be correct. If entered as 1 for a longer trip it will affect (overestimate) the CPUE.
- The sample catch (on light grey background) must tally the sum of species catch, else an error occurs.
- Records marked in red as containing errors will not make part of the database.

Quit and return to Data Operator's functions				Quit and return to Landings		
Sample no.	Site	Total (all species)	Gear units	Duration (days)	Hours of fishing	Remark
Day	Boat-Gear type	Raising Factor	Error		Data Collector	
000016	Al Sadar الصدور	500	0	1	0	
19	Tarad - Hadaq طراد - حذاق					Yousif Al Hammadi يوسف الحمادي

CLEAR ALL
A-23
A-24
A-25

Boat id. : Fishing Ground : ()

Species name	Weight (kg)	Price (AED/Kg)	Value (AED)	Aver.weight (kg)	N.fish in catch
005 Badah بدح					
009 Bassar بشار					
011 Beyah Arabi بياح عربي					
012 Tabban تبان					
013 Jedd جد					
018 Garfah جرفه					
019 Jesh Um Al Hala جيش أم الحلا					

Submit data and update

Figure 4.2. The landings electronic input form

SPECIES COMPOSITION

- Species catch must tally the total sample catch.
- Species size may be expressed in two alternative ways: average weight of individuals or number of individuals in the catch. However only one option can be used else an error occurs.
- Species catch and total sample catch provide a checking mechanism for vertical totals.

5 Estimations

Estimations can be requested at any moment and irrespective of the degree of completion of inputting.

There are two options:

1. Using the first option (include zero estimates), all estimation entities of the type month, minor stratum, boat/gear, will appear including those that for a number of reasons have resulted in zero estimates.
2. The second option limits the report to non-zero estimates only and is thus much shorter.

Figure 5.1 illustrates an example of such a report.

Home	Data Operators' Functions
Delma Island Lansh - Gargour No effort data. Estimation cancelled.	
Delma Island دلما جزيرة + Tarad - Hadaq - طراد	Accuracy = 0.65
Effort (WEEKLY)	
Est.Effort :	1,280
Records :	4
Boats/Gears :	68
Active Days :	31.0
PBA :	0.607
Spatial Accur. :	0.78
Method for Accur. :	SPST
N.days :	0
Temp. Accur. :	1.00
Method for Accur. :	-
SUI :	1.00
CV (%) :	17.5 %
Landings	
Est.catch :	639,929
Records :	2

TOTALS

Accuracy :	0.67
Boats/Gears :	82
Est.Effort :	1,542
Aver.price :	33.589
Est.value :	23,389,216
CPUE :	451.69
Est.catch :	696,337

By species	Aver.weight (kg)	Est.Effort	Aver.price	Est.value	CPUE	Est.catch
Eshnenuh اشنينو Cephalopholis hemistiktos (Yellow fin hind)	2.00	262	20.000	761,689	145.48	38,084
Umm Ar Rubiyan ام الربيان Thenus orientalis (Flathead locust lobster)	1.49	1,542	24.921	10,716,143	278.92	429,997
Umm Dhrais ام ضريس Lutjanus indicus (Indian snapper)	1.00	1,542	55.000	11,732,024	138.37	213,310
Emshawah امشوا Diplodus sargus kotschyi (One spot seabream)	-	262	12.000	179,360	57.10	14,947

Figure 5.1. Example of an estimation report