Census of Lebanese Fishing Vessels and Fishing Facilities



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November 2005

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Executive Summary

The first ever census of fishing vessels, conducted by the Department of Fisheries & Wildlife of Ministry of Agriculture, showed that the Lebanese fishing fleet is composed of 2,680 vessels that were predominantly (2,662) operating along the coast from 44 fishing ports and landing sites. About 92% of the boats were operational, but only 58% had a valid fishing license. Almost all (98%) were less than 12m in length (33% less than 6m and 52% were 6-9m LOA). Most (78%) vessels were made of wood. Same number was undecked. Seventy five percent were constructed after 1980 (54% after 1990) with an average GRT of less than 5 tons. Around 92% were motorized mainly (75%) with inboard diesel engines. Half the engines were manufactured after 1990 and 71% were less than 30-hp. Japan supplied half the engines while the UK supplied about 30% of them.

Navigation equipment were practically absent from the fleet except for few with GPS. Many vessel owners (40%) carried cellphones and about 20% of vessels were equipped with sonar.

All gear was manually activated. Some 575 vessels had winches that were primarily mechanically activated.

All boats were individually owned; mostly (79%) by one person. About 80% of the owners operated there own vessels. Almost all were Lebanese, half of whom was born after 1960. Only 86% had a valid Fishermen Passport. The fishing fleet was usually operated by 6,500 persons, who were predominantly Lebanese (90%). Fishermen belonged to 30 cooperatives and 5 syndicates whose membership did not exceed 43% of vessel owners/operators.

Almost all operated from there respective homeports all year long. More than half used trammel nets and 17% used handlines. About 70% fished at least daily. The fishing grounds were typically (90%) within 6 miles from there homeports. More than 55% targeted the inshore demersal species while 21% targeted the large pelagic species. Only 21% had a cold storage for fresh fish. Half the boats had fishing lights that were mainly (82%) 500 watts or less.

Safety equipment were practically absent from most vessels. About 42% had oars and 24% had buoys.

More than half the fishermen requested social/medical welfare, rehabilitation of ports, and enforcing/updating Fisheries Law. One third of them requested aid/grants.

The fishing ports/landing sites were characterized by small size and necessity for breakwater that needed rehabilitation/extension/construction at almost all sites. Only three pots had a maintenance basin. Eight sites had lifting equipment and seven had winches at the slipways. Most ports were shallow; 32 had solid quays and four had jetties.

No port had navigation equipment except for five having landfall/position lights. Wastes and waste oils, at most sites, are thrown directly into the sea, but there were facilities to collect those, for eventual disposal, at twenty ports/landing sites.

There was fish auction at three ports and 16 had fish stalls. A third had storage facilities. Civil Defense posts were at or near 17 sites. Almost all official ports had army post on site.

Acknowledgments

Special thanks to FAO-Medfesis staff in Rome and Beirut for there support, cooperation, and patience.

Thanks to Mr. Ghattas Akl, Director of Rural Development & Natural Resources, for preparing the venue and his continuance guidance and support.

Thanks to the Lebanese project staff namely Dr. Dahij Mukdad, Dr. Chadi Muhanna, Mr. Ibrahim Hawi, Mr. Jean Stephan, Mr. Marwan Ghosh, Mr. Ghazi Kassar, and Mr. Wafic Kombargi for there professionalism and the teamwork they demonstrated.

Further thanks are given to Mr. Wafic Kombargi for his kind assistance in developing this document.

Background

The General Fishery Commission for the Mediterranean (GFCM) of FAO, at its 26th (Ischia, September 2001) (the meeting was attended by Mr. Ghattas Akl, Director of Rural Development & Natural Resources-Ministry of Agriculture and Mr. Ibrahim Hawi, Head of Rural Development Department–Beqaa), endorsed a project proposal to develop a Mediterranean Fishery Statistics and Information System (MedFiSis) and emphasized the importance and urgency of setting-up an integrated statistical system. FAO and the European Union jointly financed the three-year project MedFiSis. Such a regional system was recognized to be necessary to complement other fisheries management means and serve as the basic vital tool for international bodies to monitor the state of the Mediterranean fisheries and the well-being of the whole ecosystem in the basin. For the system to be of effective regional use, all countries around the Mediterranean should have a national system that collects, processes, stores and disseminates an agreed common set of data; i.e., same data standards and definitions. A standardized methodology was already introduced in countries in Western Mediterranean and the Adriatic Sea, through the activities of two donor-supported FAO projects (CopeMed and AdriaMed).

The countries of the Eastern Mediterranean (Cyprus, Egypt, Lebanon, Syria and Turkey), which did not benefit from the aforementioned assistance, participated in the TCP-project 'Enabling Participation in the Fishery Statistics and Information System in the Mediterranean' (TCP/INT/2904) in order to be in a position to upgrade their national systems and enable their affiliation in the regional network.

MedFisis and the TCP

During the First Coordination Meeting, for the TCP, in Beirut, Lebanon 19–24 January 2004, Mr. Rino Coppola, Programme Coordinator, introduced the project, the rationale, and the MedFiSis framework in which this TCP Project was going to operate.

TCP Objectives

Its main objectives were highlighted as: a) "the improvement and consolidation of national fishery statistics and information systems, with a view to meeting the relevant national needs and the requirements of the regional institutions for reliable fishery statistics and the related information for sustainable management of Mediterranean living marine resources and aquaculture", and b) "the establishment of a Mediterranean regional fishery statistics and information system using national fishery statistics and information system using national fishery statistics and information systems as the source, with a specific space-time coverage, with a view to providing the GFCM with the data bases, the methodology, the network and the know-how needed to monitor and manage the fisheries sector". The position of the TCP Project vis-à-vis MedFiSis was clarified: The TCP project would prepare countries in the Eastern part of the Mediterranean to set-up and harmonize their fishery statistics systems, and participate in full in the MedFiSis regional activities. It was also made clear that the Project did not want to interfere with national programmes.

Information management

Regarding the spectrum of data and information to be treated, it was anticipated that the project activities should target statistical data collection and processing issues related to all kinds of types and classes of marine fishing units (vessels, gear, fishermen) operating in the Mediterranean areas (subsistence, traditional, commercial). The oceanic fishery (distant water), sport, and recreational fishing were not to be covered by the project.

Primary Project Expectations and Outputs

The project activities will be carried out in three phases. It was agreed that the third phase would be conceived after completion of the present period and taking into account results achieved and consolidated. The following are the expected outputs from the project:

- A preliminary national assessment report. Before any intervention will take place, national staff is to prepare a detailed technical report to describe the present situation of the data collection and information system and the organizational structure of the fishery and the fishery.
- An operational National Statistical System able to provide detailed and accurate information on the size, structure, and spatial distribution of the primary fishing industry (marine capture).
- A Computerized Fishing Vessel Register and fleet analysis for key fleet segments.
- Availability of Periodic Statistical National and International Reports.
- A Post-Project national assessment report:
- **Increased Staff Capability**. Considerably enhanced skills and ability in fisheries statistics and information systems and methodologies, and awareness of the importance of data and information reliability for sound research and application of optimum fisheries management options.

It was agreed that the data collected would remain the property of the country concerned and that the level of aggregation and the exchange protocols of the data and information to be shared would be agreed upon according to the GFCM and FAO mandates.

Introduction

Lebanon Overview

Lebanon is a predominantly mountainous country, with an area of 10,452 km². Nearly half of the country's population lives in the Greater Beirut area. The Lebanese coastline is 220 km long. The land rises steeply from the coast in the North, while in the South it forms a very narrow coastal plain. The continental shelf is narrow, especially in the South. Bottom grounds are mainly rough with intensive rocky patches, good for stationary demersal gear.

Lebanon has an estimated population of 4 million. Lebanese are historically ocean-origin people, consuming lots of fish in their diet. Local demand for fish is considerably higher than in the neighboring Middle Eastern countries. Due to the low local fish production, the Lebanese have been depending on imported fish.

It was estimated that in mid 1990s there was around 4,000 traditional small-scale fishermen distributed all over the Lebanese coast. The active fishing fleet consists of around 1,600 small fishing boats (less than 6 meters) and 400 motorized boats (less than 8 meters), but precise figures were not available. The average annual income of the fishermen, in 1998, was equivalent to US \$800. These fishermen have no access to institutional lending.

The demand for fish in Lebanon is high (15,000 tons per year in 2000). Imports of fresh, chilled, and frozen fish were reported to be 9,383 tons in 2002. The per caput consumption of fish is estimated to be 4 kg per year.

The fisheries of Lebanon are classified as small-scale, artisanal, and are traditionally based on bottom stationary gear (trammel nets and longlines), purse seine nets (lampara), and beach seines. Fishing operations, with the exception of longlines, are mostly carried out at depths of up to 50 meters. Most of the fishing nets (purse seines, gillnets and beach seines) have small mesh sizes (less than 2x2 cm). Because of the strict control by the military, the extensive fishing with explosives has been significantly reduced during the past few years.

Most landing sites have at least one local cooperative of fishermen, which, among other things, takes care, in part, of the marketing of the fish. At major landing sites fish is being marketed through an auction. These sales are recorded by the cooperative (species, price, quantity).

Fisheries administration

The Directorate of Rural Development and Natural Resources deals with fisheries in the Ministry of Agriculture (MOA) in Beirut. The Service of Forests and Natural Resources is part of this directorate, and controls the Fisheries and Wildlife Department (DFW). The department (one chief, one agricultural engineer, and one ranger) manages and supports four designated centers. The administrative structure of entities dealing with fisheries within the Ministry of Agriculture is given in Appendix 1.

Fisheries Data

The importance of the Lebanese fisheries sector was realized for a while now as well as the need for accurate and reliable statistical data. This information is indispensable to identify the needs of the fisheries sector, set priorities to consequently plan to satisfy those needs, and for legislative/policy purposes. Furthermore, statistical data supplied by Lebanon, to international organizations and stakeholders, is merely estimates based on experience and/or educated guessing. This practice should discontinue and accurate data should be supplied. The availability of such data is valuable for all kinds of stakeholders and interested parties whereby the only available accurate data are the trade statistics issued by the Ministry of Finance-Customs Service. The opportunity to design and implement a modern and effective Fisheries Statistical system that will generate standardized data comes through the GFCM Medfesis program.

Situation before

No general census was ever done. Although Lebanon has realized the importance of accurate and timely statistics; however, it lacked most of the physical requisites and competent human resources to establish and sustainably & autonomously manage a fisheries statistical system

The only available data were for Fishing Licenses, Number of licensed fishing vessels, Licensed Fishermen, Fishermen Cooperatives, Fishermen Syndicates, Fishing ports (official), and Fish Trade data.

Several ministries have jurisdiction over the fisheries sector:

- Ministry of Public Works & Transportation: Property Notebook (Deed), seaworthiness and navigation license.
- Ministry of Agriculture: fishing licenses and enforcing the law.
- Security Force (Ministry of Interior & Lebanese Army): enforcing the law.

System design

Data structure development

• **Reference system:** due to lack of historical involvement in such tasks, there was no Lebanese reference system/standards, thus the GFCM/FAO Standards were adopted with minor modifications (Appendix 1) to adapt to the Lebanese situation. Medfesis staff in Rome developed all references.

• Adapting to Lebanese situation:

- Totally local references:
 - Table 0.0 National Recorders
 - Table 0.2 Stratum/Region
 - Table 0.3 Substratum/Province/District
 - Table 1.2 Property Notebook Port & Navigation License Port
 - Table 1.8 Base Port and Port Period
 - Table 10.5 Fishing Zones
 - Partially modified references:
 - Table 1.3: Flag, Construction Country of Vessel, Construction Country of engine, Company Country and Owner's Country of Residence: Palestine was added to the list
 - Table 1.6: Vessel Type: Flouka was added to the list.
 Flouka: is a small fishing craft of varied sizes ranging from 3 to 15 m; they are made of wood, wood covered with fiberglass or fiberglass. Shapes are diverse but generally with no deck; powered by outboard engines. For wooden crafts and outboard engines for fiberglass boats that might be also called Zahhafeh. They are multipurpose crafts.

Interaction of Lebanon and the Project team

First Coordination Meeting for the TCP was held in Beirut during January 2004 and was attended by representatives of the participating countries, invited lecturers, and Medfesis staff. The "Working Strategy of the Medfesis-TCP Component" was the report of this meeting. Lebanon's country report titled "The Present Status of the Fishery and Information System in Lebanon" was completed in February 2004. The Project staff (Mr. R. Coppola and Mr. F. Marttin) visited Lebanon in March 2004 to discuss Lebanon country report, the means to facilitate the implementation of the Vessel Census, and upcoming training efforts. DFW was supplied with an English version of Fishing Vessels Census Questionnaire, Data Field Description, References, and software for Vessel Register. The questionnaire, data field descriptions, and references were translated into Arabic. A regional training course about vessels census for agriculturists from Syria and Lebanon. A work team, within the MOA, to implement the vessels census was formed in April 2004. Based on DFW comments a new version of software was released in May 2004. A pilot census, covering 50 vessels at several sites, was carried out in June 2004. Problems encountered in questionnaire filling and data entry necessitated further changes and/or amendments to both the questionnaire and software. After finalizing the Arabic/English Questionnaire (Appendix 2), a local training course for the local data recorders and field supervisors was conducted in August 2004. Census operations ensued. Official census launch was on August 23, 2004. Data collection took about two months. Preliminary data entry showed the need for further modifications to the software that was finalized in November 2004. Data entry ensued and was completed in January 2005. Several computers and data entry personnel were involved, thus there was a need to merge the data into one database. Only MedFiSis project staff could do this task. This was planned for February 2005, whereby a field mission would visit Lebanon to do so. This became prohibitive due to the security situation that developed in Lebanon in February 2005 and the subsequent events that prevented FAO staff from visiting Lebanon. Furthermore, due to administrative and financial reasons, it was not possible for anyone from Lebanon to Travel to FAO HQ to assist in database merger until July 2005. Database merger was done in Rome and a new version of the software (MedStat-LebanonStat Vessel Register Version 2005.0) was issued. The software proved to be more manageable than the older version. Furthermore, some changes were incorporated into the system. MOA staff also assisted Medfesis in there efforts with Syria (during August 2005), whereby important amendments were incorporated particularly in localization (Arabic) of many of the references to facilitate data entry.

Implementation

• **Costing:** The project implementation was financed by UTF/Leb/016. FAO Lebanon approved a \$39,500 budget to conduct the census operations (Table 1).

Item	Total Cost (\$)
Design, translation & questionnaire & related data preparation	1,000
Pilot testing (50 vessels)	350
Preparation of final questionnaire for printing	250
Printing of questionnaire	500
Census Launch (Seminar & lunch for fishermen cooperatives, syndicates &	
concerned stakeholders) (75 persons)	1,500
Stationary	1,104
Interviewers & Data Entry Training & Briefing	5,540
Field Work:	
– Questionnaire Filling (3,000 fishing vessels)	9,000
– Data entry (3,000 fishing vessels)	2,000
- Field Supervision	3,667
- Re-interviewing {10% of population; 300 fishing vessels}	900
Telecommunications	1,000
Survey of fishing ports	1,000
Central Control & Coordination	5,189
Processing & Analysis	1,500
Typing of final project report	1,000
Printing of project final report (5000 booklets)	2,000
Presentation of Project results (seminar & lunch)	1,500
Miscellaneous	500
Total	\$39,500

Table 1 Approved Budget for Lebanon Fishing Vessels Census

• Materials: TCP/INT/2904 financed the purchase of one workstation, printer, and antivirus software (Table 2). Furthermore, DFW was supplied (through UTF/Leb/016) with two PCs, one GPS, and three rangefinders (Table 3). OMSAR (Office of Minister For Administrative Reform) installed the necessary Windows XP and MS Office 2003 software on all the PCs. Stationary items and other requisites were also procured through FAO Lebanon (Table 4).

Table 2 Specifications of Workstation & Accessories Procured by TCP/INT/2904

Item	Description	Qty				
А.	DELL OPTIPLEX GX270SD	1				
	Processor: Intel Pentium 4 Processor 3.06GHz with 800Mhz					
	Chipset: Intel 865G Chipset with 800MHz front side bus and 512KB at full processor speed					
	Memory: 4 DIMM slots, 512MB DDR SDRAM expandable to 4GB					
	Hard Drive: 80GB / 7200 RPMEIDE S.M.A.R.T II ATA/100					
	Storage Device: FDD, DVD-ROM, CD-RW					
	Network Card: Integrated Intel Pro Gigabit with Alert Standards Format					
	56K Modem					
	Speakers					
	DELL 2-Button PS/2 Mouse					
	Microsoft Windows XP Pro					
B.	Dell 17" CRT Screen	1				
C.	All in One Printer OfficeJet 7130	1				
D.	UPS Infosec 500 XP	1				
Е.	Norton Antivirus 2004	1				

Item	Description	Qty
А.	DELL OPTIPLEX GX280 SMT (same specifications for workstation in Table A1, item A.)	2
C.	Dell 17" CRT Screen	2
F.	UPS Infosec 500 XP	2
G.	Magellan Meridian Platinum GPS	1
F.	Yardage Pro 1000 Rangefinder	3

Table 3 List of Further Electronic equipment procured for the Census.

Table 4 List of Procured Required Stationary & Related Items

Item	Quantity
Box Files (large)	10
Ring Binders (large)	60
HP black print head for HP Office Jet 7130 all-in-one printer	2
HP cyan print head for HP Office Jet 7130 all-in-one printer	1
HP magenta print head for HP Office Jet 7130 all-in-one printer	1
HP yellow print head for HP Office Jet 7130 all-in-one printer l	1
HP black ink cartridge for HP Office Jet 7130 all-in-one printer	4
HP color ink cartridge for HP Office Jet 7130 all-in-one printer	1
HP black inkjet cartridge # 45	1
HP C1823D inkjet color cartridge	1
Paper (A4) for printer (box of 500 each)	15
Pens (blue)	25
Bookcase/closet	1
Board (magnetic) 2x1 m	1
Marker pens (assorted colors) for the magnetic board	10
Erasers for the magnetic board	2
Marker pens (black)	10
Paper for flip chart (set)	5
CD-R (recordable CDs)	100
1.44 MB 3.5" diskettes	40
Fluorescent spray paint (yellow) cans	30
Census logo*: Plastic plate (20 x 20 cm) perforated with Lebanese Cedar (10 x10 cm)	30
Numbering Machine (Reiner)	1
Black color-box reservoir ink pad (Type 2) for Reiner B6 numbering machine	1
Red color-box reservoir ink pad (Type 2) for Reiner B6 numbering machine	2
Black Reiner Metal Stamp Ink bottle	2
Red Reiner Metal Stamp Ink bottle	2
6-outlet extension cord (minimum 15 amp) with ground	2
Gloves, disposable (box of 100 each)	2 2
Toner for Xerox photocopier (work Center Pro 420)	2
Red light pointer for lecturing	2
Magnets for magnetic board	12
Name Tags (plastic) and Blank visiting cards for the name tags	50
Hi8; 8 mm videocassette (120 minutes)	7

*



وزارة الزراعة

Training

- **Regional Training for Lebanon and Syria-March 22-27, 2004:** A one-week training course was conducted at the Oceanographic & Fisheries Institute at Batroun. The lecturers were Mr. Felix Marttin and Michele Scalizi. Local agricultural engineers from Syria (9) and Lebanon (9) were introduced to the principles of statistics and census operations. The census questionnaire was discussed in detail. Trainees filled several questionnaires at local Lebanese fishing ports. The software for data entry was discussed and data entry was practiced. Participants had a chance to comment on the forms and software
- Local Training for Census Staff: a three-day training course, August 11-13, 2004 was conducted at the Oceanographic & Fisheries Institute at Batroun. Thirty agricultural engineers and rangers from MOA received training on fishing vessels census operations. The lecturers were Dr. Dahij Mukdad, Dr. Chadi Muhanna, and Samir Majdalani. The trainees were introduced to census operations and methods of approaching. Lectures on fishing vessels, fishing gear and all pertaining equipment were given. The questionnaire was discussed in depth. On-the-job training on questionnaire filling was conducted at local fishing ports. Each census staff was provided with a standard kit (Table 5). They were instructed to contact there immediate supervisors and/or the Focal Point whenever the need arises. They were also instructed to spray each surveyed vessel with the Census Logo (Table 3) to minimize double interviewing.

Table 5 Standard Interviewers Kit – Fishing Vessels Census Application

4	Brief case
4	Letter of Instructions to local authorities
4	Fishery Census Recorder's Manual
4	Set of Survey Questionnaires
4	Survey Codification System
4	Data Definition manual
4	Clip board
- 4	Writing pad
4	Measuring tape
4	Pencils and eraser
4	Map of Lebanon
4	Contact phone numbers
4	Census Logo Cliché & green spray canisters

- Fieldwork: data collection started on August 13, 2004. The bulk of the work was done in two months; however, data collection continued during data entry for some vessels. Field supervisors were either accompanying the interviewers or doing spot-checking. Each questionnaire was checked, by the respective field supervisor, for thoroughness and quality of information. Gaps and mistakes were accordingly corrected. Re-interviewing was done for about 300 vessels.
- **Data entry:** After the finalization of the software, data entry commenced in December 2004 and continued through January 2005. It was conducted by two persons and supervised/assisted by one agricultural engineer.

Results

A. Fishing Vessels Census

1.0 Recorders

Twenty-one recorders, from MOA- Directorate of Rural Development & Natural Resources were involved in the census. Table 6 shows that Sam Durnaiqah was the lead recorder followed by Hussein Nassar and Charbel Nammour. Some supervisors also assisted in data collection. The Director of Rural Development & Natural Resources, Mr. Ghattas Akl, and the Project's Focal Point (Samir Majdalani) performed coordination and facilitation.

Field Supervisors	Recorders	Number of Fishing Vessels Surveyed by Recorders
Dahij Mukdad	Abdulqader Yahya	55
Chadi Muhanna	Akeel Khuraizat	112
Ghazi Kassar	Ali Awadah	73
Ibrahim Hawi	Bahij Mezher	122
Jean Stephan	Bassam Jummayyel	165
Marwan Ghosh	Chadi Saikaly	133
Wafic Kombargi	Charbel Abi Nader	61
	Charbel Nammour	200
	Hassan Haj Shehadeh	167
	Husni Shalhoub	143
	Hussein Nassar	205
	Ibrahim Younes	97
	Imad Dabbous	18
	Laurent Rahmeh	105
	Marwan Ghosh	153
	Naoum Maalouf	66
	Qasem Agha	178
	Sam Durnaiqah	239
	Samer Jawhar	136
	Walid Bawwab	78
	Wissam Wazneh	174
	Grand Total	2,680

Table 6 List of Supervisors and Recorders

I- Marine Fishing Vessels: 2,662 Vessels were surveyed along the Lebanese coast.

1.0 Vessel Characteristics

1.1 Distribution of Vessels Property Notebook by Harbor Master: Table 7 indicates that Tripoli and Beirut Harbor Masters issued about 63% of 2,662 Fishing Vessels Property Notebooks.

Table / Distribution of Vessels Troperty Notebook by Harbor Waster			
Property Notebook Port	Number of Vessels	Percentage	
Tripoli	957	36.0	
Beirut	715	26.9	
Saida	417	15.7	
Sour	231	8.7	
Jounieh	184	6.9	
Jbail	125	4.7	
Chekka	33	1.2	
Grand Total	2,662		

Table 7 Distribution of Vessels Property Notebook by Harbor Master

1.2 Distribution of Navigation License by Harbor Master: Fig. 1 indicates that Tripoli and Beirut issued about 55% of Navigation Licenses. Table 8 shows the distribution of navigation licenses by Harbor Master.



Fig. 1 Distribution of Navigation License by Harbor Master

1.3 Flag: Only 24 fishing vessels (<1%) were not Lebanese. Those vessels were carrying the Syrian flag and operating at the port of Aarida (a town at the Lebanese northern borders with the Syrian Arab Republic).

	Navigat	tion Licens	e Port					
Home Port	Beirut	Chekka	Jbail	Jounieh	Saida	Sour	Tripoli	Grand Total
Aabde					1		141	142
Aamchit	1		35	3				39
Aaqeibe	1		12	41			3	57
Aarida					1		31	32
Ain Qantara					23			23
Barbara		1	4					5
Batroun		52	2				8	62
Beddaoui				1				1
Beirut-Ain el Mraisseh	16			1				17
Beirut-Dalieh	52				6			58
Beirut-Jal el Baher	14							14
Beirut-Manarah	105			1				106
Bouar	16	1	2	24	1		5	49
Cheikh Zennad	_						1	1
Chekka	1	26					1	28
Dbaiye	11	1	5	58		2	3	80
Dora	271	1	3	19	9		4	307
Enfe		53	_	-	-		2	55
Halat			1	1				2
Hamat-Roca Marina		4						4
Hay el Bahr							2	2
Heri		16					1	17
Jamil Gemayyel	2	-	1				1	4
Jbail	1		55	2				58
Jiye	3				6			9
Jnah-Cote D'Azour	27				-			27
Jounieh-Kaslik	11		6	59	4	3		83
Kfar Aabida-Fadous		6	-	• •		-		6
Mounis		· ·			15			15
Naqoura	1				3	11		15
Ouzaii	131		2	2	83		3	221
Qalamoun							51	51
Saida					188		• -	188
Selaata		14					3	17
Sour				1	17	203	5	221
Sour-Rest House				1		3		3
Tabarja	4		2	22		2	3	31
Tripoli-Al Mina		21	-				451	472
Tripoli-Huqran		-1					75	75
Zeereh					64	1	,5	65
Grand Total	668	196	130	235	421	223	789	2,662

Table 8 Distribution of Navigation Licenses by Home Port

1.4 Fishing Vessels Types: Fig 2 indicates that about 92% of the vessels were motorized floukas. There were two trawlers (at Al Mina-Tripoli Port) and two Purse Seiners (At Dora Port). The rest of fishing vessels were categorized as oars operated. Fig. 3 indicates the distribution of vessel types at each fishing port.



Fig. 2 Distribution of Fishing Fleet by Vessel Type



Fig. 3 Distribution of Vessel Types by Homeport

1.5 Operational Status of the Fishing Vessels: 2,428 vessels (91.2%) of the vessels were operational at the time of the census. The remaining 234 vessels were non-operational. Fig. 4 shows the distribution of operational status by vessels type. Eight percent of the floukas were non-operational while the figure was 18.4% for the oar driven vessels. The two trawlers were non-operational due to legal problems.



Fig. 4 Operational Status by Vessel Type

Vessel Type

Fig. 5 indicates the operational status of vessels at each fishing port. This varied from 0-25.5% for the major ports (>50 vessels) with the Northern ports showing 9.9% for Aabde and 13.1% for Tripoli-Al Mina. Mount Lebanon ports showing 3.5% non-operational for Aaqaibe and 12.1% for Jbail. The ports of Greater Beirut showed the least figures with 0% for

Manara and 3.6% for Ouzaii Port. The major ports of the South, namely Saida and Sour showed 14.4 and 6.3% non-operational status respectively. More than half of the vessels (Fig. 6) reported vessel or engine repair as the reason for there inactivity. Temporary fishing inactivity was the second most important reason cited for inactivity. The distribution of inactivity reason per port can be seen in Fig. 7.



Fig. 5 Operational Status of Vessels at Each Fishing Port



Fig. 6 Reason for Fishing Vessels Inactivity



Fig. 7 Non-Operation Reason Per Port

2.0 Fishing Authorization

Table 9 indicates that only 58.9% of the vessels were carrying valid fishing licenses for the year 2004. The remaining were either carrying licenses from earlier years or non-whatsoever (17.3%). This indicates that a large percentage of fisherman are not really worried about abiding by the law regarding MOA as compared to navigation licenses which, practically all, had a valid one. Moreover, the security forces seem not to enforce the law in this regard.

Fishing License Year	Number of Vessels	Percentage
1995	8	0.3
1996	10	0.4
1997	15	0.6
1998	19	0.7
1999	29	1.1
2000	46	1.7
2001	68	2.6
2002	112	4.2
2003	327	12.3
2004	1,568	58.9
(blank)	460	17.3
Grand Total	2,662	

Table 9 Fishing Authorization Year

3.0 Structural Characteristics

3.1 Vessel Size: Fig. 8 shows that 98% of the vessels were less than 12 m (LOA).



Fig. 8 Vessel Length Distribution



Length Class distribution (Fig 9) indicated that 52 % of Lebanese fishing vessels were 6-9 m long, while 33 % were 3-6 m long. Twelve percent of the vessels were 9-12 long.



Fig. 9 Vessel Length Distribution

3.2 Vessels Construction Country: Fig. 10 shows that 90% of the boats were manufactured in Lebanon while 8% were made in the Syrian Arab Republic. About 2% of the vessels were made in other countries that included Bahrain, Belgium, Bulgaria, Cyprus, Denmark, Egypt, France, Germany, Greece, Italy, Japan, Jordan, Kuwait, Netherlands, Palestine, Russian Federation, Spain, Turkey, United Arab Emirates, United Kingdom, and the United States of America.





3.3 Hull Material: Fig 11 indicated that 77.5% of Lebanese fishing vessels were made of wood while 15% were made of fiberglass, about 7% were made of wood/fiberglass, and less than 1% were made of iron/steel, aluminum, rubber, and wood/iron.



Fig. 11 Distribution of Hull Material of Lebanese Fishing Vessels

The distribution of vessels hull material in relationship to vessel length indicated that the 48% of the vessels ranging from 3-6 m were made from wood while 42% were made of fiberglass. Regarding the other vessels length categories, the hull is predominantly made of wood as per Fig. 12.

3.4 Construction Year of Lebanese Fishing Vessels: Fig. 13 shows that 75% were constructed after 1980 with 40% of the vessels being constructed in 1990-1999 and 14% were made after the year 2000.

3.5 Decked Vessels: Fig. 14 indicated that 81% of the vessels were undecked. Fig. 15 shows the distribution of decked vessels according to hull material. Only 6% of the fibreglasses fishing vessels were decked, while about 22% of the wooden and wooden/fiberglass vessels were decked. Table 10 indicates that 63% of the vessels longer than 9m were decked while the percentage drops to 12% for the vessels, which were less than 9m (LOA).

3.6 Gross Registered Tonnage (GRT) of the Lebanese fishing vessels: Only 1,385 vessels had GRT recorded on there Property Notebook, while the figure drops to 608 for Gross Tonnage (GT). Fig. 16 shows the distribution of GRT. About 70% of the recorded vessels had GRT less than 5 tons while 24% had 5-10 tons GRT.

3.7 Vessel Builders: There were 321 Lebanese vessel builders. Table 11 lists the most important ones. Walid & Riad Koleilat Company, Toufiq Barbour, and Moustafa Hafez Qounnilli had constructed more than 100 vessels each.



Fig. 12 Distribution of Vessel Length and Hull Material

Vessel Length (m)



Fig. 13 Construction Year of Lebanese Fishing Vessels

Fig. 14 Total Number of Decked & Undecked Fishing Vessels





Fig. 15 Hull Material of Decked & Undecked Vessels

Table 10 Distribution of Decked and Undecked Vessels according to Vessel Length.

Length (LOA, m)	Decked	Undecked	Grand Total
0-3		5	5
3-6	48	826	874
6-9	222	1,174	1,396
9-12	200	131	331
12-15	33	8	41
15-18	8	3	11
18-21	1	1	2
21-24	1		1
24-27	1		1
Grand Total	514	2,148	2,662

Fig. 16 Distribution of GRT



Name of Ship Builder	Number of Vessels Constructed
Walid & Riad Koleilat Company	130
Toufiq Barbour	112
Moustafa Hafez Qounnilli	103
Ismail Ousaily	97
Bassam Chehab Est.	86
Khaled Abdullah Kayyillo	84
Amin Aknan	83
Kamel Touma Atiyeh	77
Jamal Mohammed Kayyillo	71
Salim Kayyillo	64
Ahmad Ousaily	60
Mohammed Kayyillo	52
Ahmad Khabbaz	51
Ahmad Al Akkad	46
Mohammed Ahmad Al Akkad	46
Abdullah Mohammed Kayyillo	43
Ahmad Kayyillo	34
Mohammed Salim Kayyillo	29
Ali Ahmad Khabbaz	27
Salim Annous	27
Nassir Moustafa Yassine	26
Ahmad Riad Massoud	20
Khalil Sonbol	21
Abdul Rahman Dabbous Est.	20
Nassir Al Akkad	20
Abdul Hamid Dabbagh	19
Eliyya Barbour	19
Ahmad Salameh	18
Ahmad Abdul Kader Khabbaz	17
Salim Mohammed Kayyillo	17
Comtek Industry Company	16
Hassan Salim Kayyillo	16
Abdullah Moustafa Idriss	15
Al Maha Factory	15
Garbis Karvalian	15
Hassan Omar Mikkawi	15
Mahmoud Al Akkad	15
Salim Al Rahmouni	15
Hassan Rida Haffouza	14
Salim Aayda	14
Abdul Haq Ousaily	13
Al Akkad	13
-	
	11
	10
Al Akkad Mohammed Khaled Hamra Odio Marine Company Rached Barbour Yousef Salim Al Khoury Agrotec Estefan Nakhle Moubarak Saadedine Itani & Sons Anis Kayyillo Unknown	13 13 13 12 11 11 11

Table 11 List of the Most Important Lebanese Vessel Builders

4.0 Engines: the census revealed that 90% of coastal fishing vessels (2,385) were motorized.

4.1 Engine location: Fig. 17 indicates that 75% of the engines were inboard, while 597 vessels had outboard engines.



4.2 Engines Energy Source: Fig. 18 shows that 76% of the engines were diesel operated while the rest were either gasoline or gasoline mixed with oil operated. Table 12 indicates that most inboard engines were diesel operated while the outboard engines were predominantly gasoline operated. Furthermore, it was observed that two vessels had two inboard engines on them.





Table 11 Distribution of Energy Source	According to Engine Location.
--	-------------------------------

Energy Source	Inboard	Outboard	Grand Total
Diesel	1,780	31	1,811
Gasoline		4	4
Gasoline mixed with oil	5	562	567
(blank)	3		3
Grand Total	1,788	597	2,385

4.3 Engines Construction Year: Only 1,054 engines had record of year of construction. Fig. 19 shows that about half of those engines were constructed after the year 1990 while 38% of them were constructed in 1975-1989. Some 13% of the engines were manufactured prior to 1975.

4.4 Engines Power: Fig. 20 shows that the horsepower of 71% of the vessels was below 30 while for 22% it was between 30 and 50 hp. The remaining 7% had horsepower above 50.

4.5 Engines Construction Country: About half of the engines were manufactured in Japan (Fig. 21), while nearly 30% of the engines were constructed in the United Kingdom. Each of the United States of America and Germany supplied 7% of the engines.

4.6 Engines Manufacturers: Table 12 shows that Yanmar and Petter supplied about half of the engines used by Lebanese fishing vessels. Yamaha and Mercedes supplied 16 and 7% of the engines respectively. Each of Perkins, Mazda, and Mariner supplied about 5% of the engines.

5.0 Electronic Equipment

5.1 Navigation Equipment: Only 3% of Lebanese fishing vessels i.e. 85 vessels had navigation equipment onboard. GPS represented 79% of the of navigation equipment (Fig. 22). Fig. 23 indicated that most of the navigation equipment was purchased in 1999 and onwards. The data also showed that there were eight vessels that possessed two navigation equipments and three vessels that had three navigation equipment onboard.

5.2 Communication Equipment: The census (Fig. 24) showed that operators of 1,082 vessels (40%) had communication equipment. Cellular phones constitute the bulk (99%) of communication equipment. These were mainly purchased in 1996 and onwards (Fig. 25).

5.3 Fish Finders: There were 524 fish finders with Lebanese fishermen (Fig. 26) which were all sonar, except for one. Data showed that about 75% of fish finders were acquired in 1999-2004.

There were 65 vessels that carried both communication and navigation equipment (Table 13). Table 14 shows that there were 282 fishing vessels that possessed both fish finders and communication equipments. It was also noted that there were 85 fishing vessels with both fish finders and navigation equipment (Table 15).



Fig. 19 Engines Construction Year



Fig. 20 Engine Horse Power





Table 12: Manufacturers of Engines.

Manufacturer	acturer Grand Total	
Yanmar	578	24
Petter	537	23
Yamaha	375	16
Mercedes	157	7
Perkins	126	5
Mazda	116	5
Mariner	99	4
Volvo	59	2
Mercury	53	2
Lister	33	1
Suzuki	24	1
Johnson	20	1
Daya/Mitsubishi	17	1
Ford	16	1
Mitsubishi	16	1
Ruggerini	16	1
Tohatsu	13	1
Other	123	5
Grand Total	2,378	



Fig. 23 Purchase Year of Navigation Equipment 20 18 16 Number of Vessels 14 Radar 12 Other Meteorological map receiver 10 Gyrocompass 8 GPS Direction finder 6 4 2 0 1977 1982 1994 1995 1997 1998 1999 2000 2001 2002 2003 2004 Year





Fig. 22 Distribution of Navigation Equipment



Fig. 25 Communication Equipment Purchase Year

Fig. 26 Distribution of Fish Finders





Table 13 Distribution of Vessels with both Navigation & Communication Equipment

Equipment	Cellular phone	Radio telephone	Radio VHF	Grand Total
Direction finder	1			1
GPS (Satellite navigation)	49	1	4	54
Gyrocompass	4			4
Meteorological map receiver	1			1
Other	2			2
Radar	3			3
Grand Total	60	1	4	65

Table 14 Distribution of Vessels with both Fish Finders & Communication Equipment

			11
Equipment	Sonar	Other	Grand Total
Cellular phone	274	1	275
Radio telephone	2		2
Radio VHF	5		5
Grand Total	281	1	282

Equipment	Sonar	Other	(blank)	Grand Total
Direction finder	1		1	2
GPS	59		8	67
Gyrocompass	8	1	1	10
Meteorological map receiver	1			1
Other			2	2
Radar	3			3
Grand Total	72	1	12	85
6.0 Deck Machinery

6.1 Gear Activation Method: Fig 27 shows that 98% of the fishing gears were manually activated.



Fig. 27 Fishing Gear Activation Method

6.2 Winch Quantity and Type per vessel: 576 vessels (22% of fishing fleet) carried one winch aboard, while five vessels had two winches on board (Fig. 28). The winches were mainly the simple trammel/net winch type with single or double reels.



Fig. 28 Type of Winches

6.3 Winch Activation Method: Fig. 29 shows that 90% of the winches were mechanically activated.





7.0 Fishing Vessels Ownership

7.1 Type of Ownership: Individuals owned all vessels, except for two vessels. About 79% of the vessels were owned by one person and 20% were owned by two individuals (Fig. 30). Fig. 31 shows that around 80% of the vessels were operated by there owners. Nearly 99.9% of the vessels were owned and/or operated by Lebanese.



Fig. 30 Number of Owners of Vessels

Fig 31 Operators of Fishing Vessels



7.2 Profile of Fishermen: Table 16 shows that the majority of fishermen lived in or in the vicinity of their homeports. The table lists the cities and towns where more than 20 fishermen lived. Fig. 32 indicates the birth year of the Lebanese fishermen. This chart shows that the age of half the fishermen was below 45 years. There is a peak (about one third of fishermen) for those born in 1960-1969.

Owner town	Operator	Owner	Unknown	Grand Total
El Mina	120	287	1	408
Beirut	8	254		262
Sour	67	131	1	199
Bebnine	44	113		157
Said	25	126	2	153
(blank)	28	93	2	123
Sarafand	36	78		114
Ouzaii	9	99		108
Enfe	16	54		70
Borj Hammoud	6	59		65
Batroun	10	52		62
Tripoli	13	46		59
Jbail	12	45		57
El Qalamoun	18	33		51
Aaqaibe	8	37		45
Bouar	15	23		38
Dbaiye	4	32		36
Chekka	6	24		30
Aamchit	4	22		26
Tabarja	4	22		26
Dora	7	18		25
Aarida	12	12		24
El Heri	4	20		24
Sad el Baouchriye		24		24
Zalqa	1	22		23
Naqoura	3	18		21

Table 16 Town of Residence of Vessel owners and/Operators



Fig. 32 Birth Year of Vessels Owners and/or Skippers

7.3 Country of Vessel Owners: Fig. 33 indicates the 99.9% of owners/operators were Lebanese. Two Palestinian and ten Syrian nationals were partners in Lebanese fishing vessels. It should be noted that many (figures unknown) of Palestinians and probably Syrians own/co-own vessels that they register in the names of there Lebanese wives or friends.



Fig. 33 Country of Fishing Vessels Owners/Operators

Type of Operator

7.4 Fishermen Passport: Table 17 indicates that 86% of interviewed fishermen declared that they had valid Fishermen Passport.

Tuble 17 Holders of Valla Tisher		
Fishermen Passport	Total	Percentage
Yes	2,279	86%
No	383	14%
Grand Total	2,662	

Table 17 Holders of Valid Fishermen Passport

8.0 Crew

8.1 Crew Number: Fig. 34 indicates that the minimum number of crew was 4,575; the maximum number was 9,575, while the usual number was 6,480 aboard Lebanese fishing fleet.



Fig. 34 Number of Crew aboard Vessels

Fig. 35 shows the distribution of the minimum number of crew aboard Lebanese fishing fleet. It indicates that about 46% of the vessels were minimally operated with only one person while 42% are operated with two persons.



Fig. 35 Distribution of Minimum Number of Crew aboard Vessels

The distribution of the maximum number of crew (Fig. 36) indicates that about 80% of the vessels had a maximum of 2-4 crew members per vessel with 21%, 31 and 27% of the vessels were operated by 2, 3 and 4 crewmembers per vessels simultaneously.



Fig. 36 Distribution of Maximum Number of Crew aboard Vessels

For the usual number of crew per vessel (Fig. 37), the data shows that half the vessels were usually operated by two people while 14% and 25% of the vessels were usually operated by 1 and 3 crewmembers simultaneously.



Fig. 37 Distribution of Usual Number of Crew aboard Fishing Vessels

8.2 Crew Nationality: 90% of vessels were reported to have Lebanese crew only (Fig. 38), while 5% of the vessels were declared to hire Palestinians and 4 % to have Syrian crewmembers. It is thought that the number of foreign labor is much higher, since it was noticed that many crewmembers e.g. Egyptians at Dora Port, but vessel owners declined to provide such information, maybe due to the fact that Egyptians were banned to have a work permit in the fisheries sector.



Fig. 38 Declared Nationality of Crew

8.3 Fishermen Cooperative membership: Fig. 39 indicates that there was 30 fishermen's cooperative along the Lebanese coast. Only 1,152 vessel owners/operators (43%) declared that they belonged to a cooperative while 1,510 were not members. Cooperatives in Greater Beirut (Dora, Beirut, and Ouzaii) showed highest membership with 591 members representing 51% of vessel owners/operators. There was usually one cooperative in each officially recognized fishing port except for Dora Port that had two cooperatives; namely, Cooperative of Vessel Owners & Professional Fishermen in Mount Lebanon and North Matn & Karantina Fishermen Cooperative. This was thought to be due to power struggle and political affiliations.

8.4 Fishermen Syndicates Membership: There were five fishermen syndicates (Fig. 40) along Lebanese coast. Only 1,017 vessel owners/operators (38%) declared that they belonged to a syndicate while the rest (1,645) were not members. North Lebanon Fishermen Syndicate showed highest membership of 388 fishermen.

Table 18 indicates that only 382 vessel owners/operators belonged to both a syndicate and a fishermen cooperative. Greater Beirut region showed that 96% (248) of its syndicated fishermen belonged to cooperatives too. This was not the case for other regions of the country.



Fig. 39 Cooperative Membership

Number of Vessels



Fig. 40 Fishermen Syndicates Membership

Ouzaii & Neighbouring Ports Fishermen Syndicate, 24

Table 18 Membership in both Fishermen Syndicates & Cooperatives

Syndicate	Cooperative	Total				
rut & Suburbs Fishermen Syndicate Tut & Suburbs Fishermen Syndicate Total th Lebanon Fishermen Syndicate th Lebanon Fishermen Syndicate Total	Aaqeibe Fishermen Cooperative	19				
	Ain el Mraisseh Fishermen Cooperative	3				
	Bouar Fishermen Cooperative	7				
	Cooperative of Vessel Owners & Professional	43				
	Fishermen in Mount Lebanon					
	Dbaiye & Neighboring Areas Fishermen Cooperative	36				
	North Matn & Karantina Fishermen Cooperative	61				
	Ouzaii Fishermen Cooperative	8				
	Ras Beirut-Dalieh Port Fishermen Cooperative	47				
Beirut & Suburbs Fishermen Syndicate Total		224				
North Lebanon Fishermen Syndicate	Enfe Fishermen Cooperative	6				
	Batroun Fishermen Cooperative	1				
	Bebnin Fishermen Cooperative	8				
	Chekka Fishermen Cooperative					
	Hay Al Bahr- Akkar Fishermen Cooperative	2				
	Qalamoun Fishermen Cooperative	1				
	Northern Fishermen Cooperative	5				
	Diving Fishermen Cooperative	8				
North Lebanon Fishermen Syndicate Total		37				
Ouzaii & Neighboring Ports Fishermen Syndicate	Ouzaii Fishermen Cooperative	24				
Ouzaii & Neighboring Ports Fishermen Syndicate Total		24				
Saida Fishermen Syndicate	Ouzaii Fishermen Cooperative	1				
	Saida Fishermen Cooperative	52				
Saida Fishermen Syndicate Total		53				
South Lebanon Fishermen Syndicate	Sour Fishermen Cooperative	10				
-	Zahrani Fishermen Cooperative	34				
South Lebanon Fishermen Syndicate Total		44				
Grand Total		382				

9.0 Ports of Fishing Operations

9.1 Ports: When vessel owners/operators were asked about there ports of fishing operations, the ports declared (Fig. 41) were, in general, similar to the results obtained by physical inspection by the DFW recorders (Fig. 3). Owners/operators of 54 vessels reported operating in two ports (Table 19). No vessel was recorded to operate in three or more ports. Nevertheless, vessels are allowed to enter ports other than homeports in cases of emergency





Port (1)	Port (2)	Total
Aabde	Hay el Bahr	2
	Tripoli-Al Mina	17
Aarida	Cheikh Zennad	2
Ain Qantara	Zeereh	1
Batroun	Selaata	6
Dbaiye	Dora	1
	Ouzaii	1
Dora	Jamil Gemayyel	2
Enfe	Batroun	1
	Selaata	1
	Tripoli-Al Mina	2
Heri	Qalamoun	1
Naqoura	Sour	2
Qalamoun	Tripoli-Al Mina	1
Saida	Ain Qantara	1
Selaata	Zeereh	2
Sour	Mounis	2
	Saida	2
	Zeereh	6
Zeereh	Saida	1
Grand Total		54

Table 19 Ports of operation for multiple ports of fishing operations

9.2 Fishing Season: Table 20 shows that the almost all vessels (96%) operate all year long. 98% of vessels start operations in January and 97% work in December. The same trend applies at all fishing ports (Fig. 42 & Fig. 43).

	Moi	nth E	nd										
Month Begin	2	3	4	5	6	7	8	9	10	11	12	(blank)	Grand Total
1	6	4	6	3	5	1	3	5	1	2	2,561		2,597
2									3	1			4
3								1	3	1	2		7
4										3	2		5
5							1		3	1	2		7
6								1	3		1		5
8										1			1
9											2		2
11											2		2
12											2		2
(blank)												30	30
Grand Total	6	4	6	3	5	1	4	7	13	9	2,574	30	2,662

Table 20 Fishing Season



Fig. 42 Fishing Season Onset

□ 1 □ 2 □ 3 □ 4 ■ 5 □ 6 ■ 8 □ 9 ■ 11 □ 12 □ (blank)



Fig. 43 Fishing Season Ending

□ 2 □ 3 □ 4 □ 5 ■ 6 □ 7 □ 8 □ 9 ■ 10 □ 11 □ 12 □ (blank)

10.0 Fishing Operations: the software used does not allow data entry of multiple fishing periods, there overlap, and multiple gears during the same period. Thus, the results obtained do not reflect the real picture of the fishing operations. However, some indications could be obtained from the results.

10.1 Fishing Operations Gear: Table 21 indicates that about 53% of the vessels used Trammel nets as there primary fishing gear. Hand operated Handlines/Pole-lines and Set Longlines were used by 17% and 12% of fishermen respectively. The same trend applied during a successive period when fishermen use a gear different from the one used in a previous period.

Fishing Gear	Gear 1	Gear 2	Gear 3
Beach seines	28	21	1
Drifting longlines	134	19	2
Driftnets	1	1	0
Encircling gillnets	1	1	0
Gillnets (not specified)	1	0	0
Handlines and pole-lines (hand operated)	451	10	2
Handlines and pole-lines (mechanized)	21	1	0
Pots	81	6	0
Set gillnets (anchored)	46	12	1
Set longlines	320	18	3
Spear Gun	8	0	0
Trammel nets	1,362	92	3
With purse lines (purse seines)	134	6	3
Without purse lines (lampara)	3	1	
Grand Total	2,591	188	15

Table 21 Gears Used in Fishing Operations

10.2 Fishing Gear Season: Table 20 shows that practically most vessels fish all year long. About 64% of the vessels fish for 12 months when using there primary fishing gear (Table 22). When looking into fishing gear specific fishing season, the same trends apply with some gear-specific seasonal variations (Table 23 and Table 24) whereby e.g. 40% of vessels using trammel nets start fishing in January and a similar percentage end in December.

	Mor	nth er	ıd											
Month begin	1	2	3	4	5	6	7	8	9	10	11	12	(blank)	Grand Total
1	16	41	37	56	10	7		3	3	11	37	1,693		1,914
2		1	1	3	1	3	1	1	1	3	12	4		31
3			2	1	2	3	2		7	17	39	8		81
4				1	2	4		5	22	60	75	22		191
5						1	1	5	19	37	37	9		109
6						1		7	10	12	21	12		63
7								2	10	4	15	8		39
8								1	5	18	26	16		66
9										8	50	11		69
10											11	15		26
11												2		2
(blank)													71	71
Grand Total	16	42	40	61	15	19	4	24	77	170	323	1,800	71	2,662

Table 22 Fishing Season for Primary Fishing Gear

	Month	begi	n										
Primary Fishing Gear	1	2	3	4	5	6	7	8	9	10	11	(blank)	Grand Total
Beach seines	22		1	2		1			2				28
Drifting longlines	53	4	3	12	4	3	5	16	28	6			134
Driftnets	1												1
Encircling gillnets	1												1
Gillnets (not specified)						1							1
Handlines & pole-lines (hand operated)	242		16	79	47	25	15	14	8	5			451
Handlines & pole-lines (mechanized)	14		1	2	2	1			1				21
Pots	21	2	8	26	17	4	1	1	1				81
Set gillnets (anchored)	36	2	2	1	1	1	1		2				46
Set longlines	258	3	12	10	5	11	4	6	9	2			320
Spear Gun	6				1			1					8
Trammel nets	1,192	15	29	36	18	9	9	24	16	12	2		1,362
With purse lines (purse seines)	68	3	8	23	14	7	4	4	2	1			134
Without purse lines (lampara)		2	1										3
(blank)												71	71
Grand Total	1,914	31	81	191	109	63	39	66	69	26	2	71	2,662

Table 23 Fishing Season Onset for the Various Primary Fishing Gear

Table 24 Fishing Season End for the Various Primary Fishing Gear

	Mo	nth e	nd											
Primary Fishing Gear	1	2	3	4	5	6	7	8	9	10	11	12	(blank)	Grand Total
Beach seines	2	1	3	13	1	1				2	1	4		28
Drifting longlines	3	7	2	1		2		3	6	14	47	49		134
Driftnets				1										1
Encircling gillnets				1										1
Gillnets (not specified)												1		1
Handlines & pole-lines (hand operated)	2	3		1			1	6	23	62	101	252		451
Handlines & pole-lines (mechanized)								1	3	1	2	14		21
Pots		1		1		1		6	9	20	20	23		81
Set gillnets (anchored)	1	2	3	4	1	2			2	3	4	24		46
Set longlines	2	6	3	3	1	1		1	3	10	34	256		320
Spear Gun									1	1		6		8
Trammel nets	6	18	28	35	11	7	3	6	20	34	85	1,109		1,362
With purse lines (purse seines)		4	1	1	1	3		1	10	22	29	62		134
Without purse lines (lampara)						2				1				3
(blank)													71	71
Grand Total	16	42	40	61	15	19	4	24	77	170	323	1,800	71	2,662

The schematic fishing season for the most important primary fishing gear is as follows:

10.2.1 Beach Seines: Fig. 44 shows the fishing season for beach seines. Fishermen using this gear indicated that they mostly fish during the first third of the year.



Fig. 44 Beach Seines Fishing Season

10.2.2 Drifting Longlines: 134 vessel owners/operators said that they use this gear as there primary fishing gear. Fig. 45 shows that 27% of them use it all year long while 25% use it during the last quarter of the year.



Fig. 45 Drifting Longlines Fishing Season

Onset (bold) & End Month

10.2.3 Hand operated Handlines and Pole-lines: Fig. 46 indicates that more than half (54%) of the 451 fishermen using this fishing gear use it all year long. While the season for the rest is practically evenly distributed all through the year.



Fig. 46 Handlines & Pole-lines (hand operated) Fishing Season

10.2.4 Pots: one quarter of vessels employed pots, as there primary gear, all year long (Fig. 47). About 58% of vessels start using them during the second quarter of the year and continue so until the last quarter.



Fig. 47 Pots Fishing Season

10.2.5 Set Gillnets: Fig. 48 shows that half the vessels owners/operators set there gillnets (as primary fishing gear) all through the year, while the season varies for the rest.



Fig. 48 Set Gillnets (anchored) Fishing Season

Onset (bold) & End Month

10.2.6 Set Longlines: 320 vessel owners/operators indicated that they use set longlines as there primary fishing gear. The use of this gear follows the same trend as for the other fishing gear. Fig. 49 shows that 75% of fishermen use it all year long with varying season for the rest of fishermen.



Fig. 49 Set Longlines Fishing Season

10.2.7 Trammel Nets: about 78% of the 1,392 fishermen who use trammel nets as primary fishing gear employ them all year round (Table 24).

r								-		0			
	Mont	h End											
Month Begin	1	2	3	4	5	6	7	8	9	10	11	12	Grand Total
1	6	18	27	31	8	3		2	2	7	20	1,068	1192
2			1	2			1	1		1	6	3	15
3				1	1	1	1		3	6	12	4	29
4				1	2	2		1	5	10	11	4	36
5							1	1	3	4	7	2	18
6						1		1	2		1	4	9
7									5	1	1	2	9
8										3	13	8	24
9										2	10	4	16
10											4	8	12
11												2	2
Grand Total	7	20	31	39	16	13	10	14	29	44	96	1,121	1,362

Table 24 Fishing Season for Trammel Nets as Primary Fishing Gear

10.2.8 Purse Seines: 43% of purse seine fishermen use them all year round (Fig. 50).



Fig. 50 Purse Seines Fishing Season

10.3 Number of Sorties per Month: Fig. 51 shows that about half the fishermen go out to the sea practically every day of the month when they use their primary fishing gear. About 20% claimed that they even go out more than once a day. About one quarter of fishermen conceded that they do not fish daily but rather every 2-3 days.



Fig. 51 Number of Sorties per Month for Primary Fishing Gear

When a second fishing gear was used in a different period, about 43% of vessel owners/operators indicated that they fish about once every two days Fig. 52 while a third of them fished daily. Table 25 shows the number of sorties/month for each fishing gear employed by fishermen. It indicates that for the major fishing gear, the most of vessel owners/operators go out fishing practically daily.



Fig. 52 Number of Sorties per Month for Second Fishing Gear

Fishing Gear	Numb	Number of Sorties per Month											
rising Gear	<10	10-19	20-29	30-39	40-49	>50	(blank)	Grand Total					
Beach seines	1	7	11	6	3	0		28					
Drifting longlines	11	61	57	4	0	0	1	134					
Driftnets	0	1	0	0	0	0		1					
Encircling gillnets	0	1	0	0	0	0		1					
Gillnets (not specified)	0	0	1	0	0	0		1					
Handlines & Pole-lines (hand operated)	31	127	166	123	1	1	2	451					
Handlines & Pole-lines (mechanized)	8	8	4	1	0	0		21					
Pots	2	21	44	12	1	0	1	81					
Set gillnets (anchored)	3	8	22	10	1	2		46					
Set longlines	11	86	175	41	4	1	2	320					
Spear Gun	1	3	3	1	0	0		8					
Trammel nets	32	273	750	265	13	26	3	1,362					
With purse lines (purse seines)	2	40	66	25	1	0		134					
Without purse lines (lampara)	0	0	3	0	0	0		3					
(blank)	0	0	0	0	0	0	71	71					
Total	102	636	1,302	488	24	30	80	2,662					

 Table 25 Number of Sorties per Month for Fishing Gears

10.4 Fishing Zones: Fig. 53 indicates that the majority (91%) of operational fishermen fish within 6 miles radius from there respective home ports when using there primary fishing gear. About 53% of vessels operated in 3 miles or less fishing zone, while 38% reach the 6 miles limit. Some 131 vessel owners (14% of vessels in North Lebanon) in North Lebanon claimed to be fishing in a 12 miles radius. This percentage was much less for other geographic regions. Some 25 vessels were fishing in the 9 miles radius, while 30 vessels owners/operators claimed to be going for more than 12 miles.



Fig. 53 Fishing Zones for Primary Fishing Gear

Fig. 54 indicates a similar trend for fishing zones for the second period/gear used by vessel owners/operators.



Fig. 54 Fishing Zones for Second Fishing Gear

Fig. 55 and Fig. 56 show the fishing gears employed in each fishing zone as a primary gear or during a second fishing period. It shows that most gear are being used in the coastal fisheries i.e. less than 6 miles



Fig. 55 Distribution of Primary Fishing Gear within Fishing Zones



Fig. 56 Distribution of Second Fishing Gear within Fishing Zones

10.5 Targeted Stock: Fig. 57 indicates that more than half (56%) the vessels targeted Demersal Inshore species, mainly of hard sub-stratum (e.g., sea-bream) while 21% of them targeted Large Pelagic (e.g. tunas, amberjacks). Demersal Offshore species, mainly of soft sub-stratum (e.g., codfish) and Small Gregarious Pelagic (e.g., anchovies, sardines, and mackerel) were targeted by 12% and 9% of the vessels simultaneously.



Fig. 57 Targeted Fish Stock

10.5.1 Fishing Zones: most of Lebanese fishing vessels catch there fish within 6 miles radius of there respective home ports (Table 26). The table shows that about 90% of the vessels targeting the main fish stocks (particularly the demersal inshore species) will do that in coastal waters (< 6 miles). This is the case even for the large pelagic fish. 5-10% of the vessels were targeting the main stocks outside the 6 miles radius from home ports.

	Targeted S	tock by Pri	imary Fishin	g					
Fishing zone	Demersal inshore	Large pelagic	Demersal offshore	Small gregarious pelagic	Other	Sessile organisms	Coryphaena hippurus	(blank)	Grand Total
Beirut < 3	197	173	32	70		1			473
Beirut < 6	111	100	12	18					241
Beirut < 9	2								2
Beirut < 12	4	2	1	5					12
Beirut > 12	1			2					3
Mt Lebanon < 3	155	64	31	23	1				274
Mt Lebanon < 6	66	29	14	8					117
Mt Lebanon < 12	6		3						9
Mt Lebanon > 12	1		1						2
North < 3	271	55	21	26	3	1	3		380
North < 6	260	45	77	24	2				408
North < 9	10			1					11
North < 12	86	16	16	12		1			131
North > 12	14	5	4	1					24
South < 3	166	34	19	26					245
South < 6	120	18	70	14					222
South < 9	5	4	2	1					12
South < 12	10	2	10	2					24
South > 12	1								1
(blank)								71	71
Grand Total	1,486	547	313	233	6	3	3	71	2,662

 Table 26 Targeted Fish Stocks within Fishing Zones (miles)

Figures 58-64 schematically show the fishing zones for the different groups of targeted stocks.



North < 3 Fishing Zone (miles)





Fig. 58 Coryphaena hippurus Fishing Zone



Fig. 60 Demersal offshore species Fishing Season

Fig. 61 Large pelagic Fishing Zone





Fig. 62 Other Species Fishing Zone







Fig. 64 Small Gregarious Pelagic Fishing Zone

10.5.2 Fishing Season: a large number of vessels fish all year long. The percentage varies depending on the group of targeted stock e.g. the fishing season for *Coryphaena hippurus* is from September until November (Fig. 65), while 74% of the vessels targeting the Demersal Inshore species do this all through the year Table 27 This percentage was 68% for the Demersal Offshore species (Table 28), 51% for the Large Pelagic species (Table 29), and 42% for the Small Gregarious Pelagic species (Table 30). Fig. 66 shows the fishing season for the other species, while Fig 67 shows the fishing season for the sessile Organisms as reported by fishermen.



Fig. 65 Coryphaena hippurus Fishing Season



	Mo	nth En	d										
Month Begin	1	2	3	4	5	6	7	8	9	10	11	12	Total Vessels
1	6	13	13	16	7	6		2	2	8	18	1,101	1,192
2	1			3			1			1	6	1	13
3			2		2	1	1		3	12	15	4	40
4					1	1		3	10	28	25	9	77
5								4	8	23	14	6	55
6								4	6	4	8	3	25
8								1	7	1	8	2	19
9									1	7	11	5	24
10										2	20	4	26
11											5	8	13
12												2	2
Total Vessels	7	13	15	19	10	8	2	14	37	86	130	1,145	1,486

Table 27 Fishing Season for Demersal Inshore Species (mainly of hard sub-stratum)

Table 28 Demersal Offshore Species (mainly of soft sub-stratum)

	Month	End											
Month Begin	1	2	3	4	5	6	7	8	9	10	11	12	Total Vessels
1	3	4	6	1	1			1		1	4	212	233
2										1			1
3				1					1	3	8	1	14
4					1				4	6	5	1	17
5								1	4	4	8		17
6								2	1	2	2	2	9
7									2	2		1	5
8									1	3	1		5
9											4	2	6
10											3	3	6
11													0
12													0
Total Vessels	4	6	9	6	7	6	7	12	22	32	46	234	313

Table 29 Fishing Season for Large Pelagic Species (e.g. tunas, amberjacks)

	Mont	h End											
Month Begin	1	2	3	4	5	6	7	8	9	10	11	12	Total Vessels
1	5	16	4	8		1					12	277	323
2			1			1			1	1	3	2	9
3						1	1			2	11	3	18
4								1	4	17	39	9	70
5						1	1		4	6	12	2	26
6									3	3	10	6	22
7									1	1	6	5	13
8								1	3	8	11	5	28
9										4	24	4	32
10											3	3	6
11													0
12													0
Total Vessels	5	16	5	8	0	4	2	2	16	42	131	316	547

	Mon	th En	d										
Month Begin	1	2	3	4	5	6	7	8	9	10	11	12	Total Vessels
1	2	8	14	31	2				1	2	2	98	160
2					1	2		1			2	1	7
3						1			3		5		9
4				1		3		1	4	9	6	3	27
5									3	3	3	1	10
6						1		1		2	1	1	6
7								1			1		2
8											3	6	9
9										1		1	2
10												1	1
11													0
12													0
Total Vessels	2	8	14	32	3	7	0	4	11	17	23	112	233

Table 30 Fishing Season for Small Gregarious Pelagic Species







Fig. 67 Sessile Organisms Fishing Season

11.0 Fish Processing and Preservation Equipment

Fig 68 indicates that 84% of the fishing vessels had a fish hold aboard there vessels. About 21% of the vessels had cold storage (basically the Igloo-Type) while only two vessels had freezers. No other fish preservation and processing equipment were present aboard the Lebanese fishing fleet.



Fig. 68 Fish Preservation & Processing Equipment

Fresh Fish Hold: Fig 69 indicates that 98% of the vessels had < 0.5 cubic meter (cbm) containers for holding fresh fish. The size of such containers ranged between 0.001 and 0.048 cbm with 35% of them being about 0.02 cbm.





12.0 Other Equipment: Fig 70 indicates that about half the vessels of the Lebanese fishing fleet have fish lights. Some 93 vessels were equipped with electricity generators; while 16 vessels had lift equipment.





12.1 Fish Lights: Fig 71 shows that 52% of the fishing vessels possessed fishing lights. About 75% of those vessels carried only one light, while 17% carried two lights.



Fig. 71 Number of Fishing Lights aboard Fishing Vessels

Table 31 indicates the distribution of power of fishing lights among fishing vessels in relation to number of lights per vessel. About 65% of the vessels carry 500 watts lights, 17% of the vessels carry lights < 500 watts, and 16% carry 600-1000 watts lights.

Power of each light	Numb	er of L	ights	per V	esse	l												
(W)	1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	23	(blank)	Total
50	6	5	2															13
60	2		1															3
80		1																1
100	82	11	4	2	1							1						101
120	1																	1
125	4			1														5
200	25	9					1	2									1	38
250	3	1																4
300	22	2		1														25
400	23	5	2	2	1	1	2	3	1		1		2					43
500	675	166	11	21	8	5	1	1		4	1	6	2	3	3	1	2	910
600	55	6	1				1	1										64
700	3																	3
750	2	1																3
800	63	5								1								69
850	2	1																3
900	2																	2
1000	57	17	3	1	1	1				1								81
1200		2																2
1500	12	3	2		1							1						19
2000	3																	3
5000	1																	1
(blank)	2																1,266	1,268
Total	1,045	235	26	28	12	7	5	7	1	6	2	8	4	3	3	1	1,269	2,662

Table 31 Distribution of Power of Fishing Lights among Fishing Vessels

13.0 Safety Equipment: Table 32 shows that about 42% of the vessels carried a set of oars, while 24% possessed buoys (tyres) and about 9% carried fire equipment aboard. There were 606 vessels with no safety equipment whatsoever.

Safety Equipment	Number of Vessels	Percentage
Oars	1,109	41.7%
Buoys/Tyres/Lifebelts	643	24.2%
Fire Equipment	225	8.5%
Flares	35	1.3%
Ropes	11	0.4%
Lifeboats	9	0.3%
Belts	2	0.1%

 Table 32 Distribution of Safety Equipment aboard Fishing Vessels

13.1 Buoys/Tires/Lifebelts: Fig. 72 shows that half the vessels (with Buoys/Tires/Lifebelts) carried one per vessel while one third of them carried two.



Fig. 72 Distribution of Buoys/Tires/Lifebelts

13.2 Fire Equipment: 94% of the 212 vessels that carry fire equipment possess only one fire extinguisher aboard the vessel while 10 vessels carry two extinguishers (Fig. 73).



Fig. 73 Fire Equipment aboard Vessels

13.3 Flares: 22 vessels (63%), out of the 35 fishing vessels that carry flares, possesses only one flare per while one vessel owner reported carrying 50 flares (Fig. 74).



Fig. 74 Number of Flares per Vessel
14.0 Remarks by Fishermen

Only 1980 fishermen gave at least one remark. Some fishermen gave more than one remark; and even couple of them talked for a considerable time; even about issues not directly related to the fisheries sector e.g. domestic issues. Lack of response could be attributed to:

- Some thought that it is in futile or a waste of time to give any comment.
- Some thought that filling the questionnaire already took a considerable amount of time and thus did not want to continue any further.
- There were a number of abandoned vessels whose owners could not be directly contacted; or the owners of some operational vessels could not be located at the time of survey; thus, the information was relayed to our personnel by means of a third party or by phone.
- Probably some recorders, for one reason or another, did not ask some of the vessel owners/operators to give any comment.

Nevertheless, the comments were recorded, edited, and tabulated. Although few gave lengthy comments, yet not more than seven comments per fisherman was entered. The comments were divided into 9 categories as per Table 33. The most important categories were Social & Medical Security, Ports Facilities, Fisheries Law, and Aid to Fishermen to which 56, 53, 49, and 31 percent of fishermen gave comments about.

Category	Number of Respondents	Percentage
Social & Medical Security	1490	56.0 %
Ports Facilities	1403	52.7 %
Fisheries Law	1306	49.1 %
Aid to Fishermen	816	30.7 %
Environment	129	4.8 %
Fishing Operations	47	1.8 %
Sea Rescue	15	0.6 %
Palestinians	9	0.3 %
Miscellaneous	49	1.8 %

Table 33 Distribution of Fishermen's Remarks by Categories

Table 34 gives the details of the remarks per category:

- Social & Medical Security: this was the most important issue that 56% of fishermen remarked about. One quarter of them demanded medical security. About 17% demanded both social and medical security, while 12% asked for Social security only. Very few fishermen (2%) asked for a pension plan.
- **Ports facilities**: About 20% of fishermen were concerned with port rehabilitation and cleaning; while about 6% were interested in each of port equipping, lighting or quay. The other criteria were of lesser importance to responding vessel owners/operators.

- **Fisheries Law:** about 40% of vessel owners/operators asked for stopping of Illegal Fishing Operations and enforcement of fisheries law. Only 65 fishermen (2.4%) wanted the Fisheries Law to be modernized. The other remarks were of lesser importance and were primarily concerned with banning/halting a certain fishing gear.
- Aid to Fishermen: more than a quarter of vessel owners/operators demanded direct aid/grants from the government.
- **Environment:** only 129 fishermen (4.8%) were concerned with this matter with 3% asking for a halt on the pollution of the sea.
- Sea Rescue: only 15 fishermen (0.6%) showed concern regarding this matter.
- **Palestinians:** nine fishermen remarked on permitting Palestinians to own fishing vessels and Work Permits to be given to Palestinians.
- **Miscellaneous:** this lists a variety of personal remarks like establishing a port (1%) for those vessel owners/operators who operate from a location where no port facilities are available like at the northern borders and Halat town in Mount Lebanon. The other remarks are of minor importance.

Remarks	1	2	3	4	5	6	7	Total	%
1- Social & Medical Security									
Medical Security	463	153	42	14	2			674	25.32
Social & Medical Security	219	176	39	6	5			445	16.72
Social Security	217	62	23	9	1	2		314	11.80
Pension Plan	31	18	8					57	2.14
2- Ports Facilities									
Port Rehabilitation	118	89	74	12	5			298	11.19
Port Cleaning	63	24	150	3	1	8	1	250	9.39
Port Equipping	58	59	43	10	2	1		173	6.50
Port Lighting	6	9	7	145	1			168	6.31
• Quay	79	49	24	9	1			162	6.09
• Lighthouse	10	15	3	43	1			72	2.70
Port Enlargement	26	18	10	4				58	2.18
Fish Auction	14	15	17	1	2		2	51	1.92
Port Deeping	30	9	8	1				48	1.80
Boat Maintenance Facility	6	19	11	1	1			38	1.43
Communication Equipment	1	2	19	3	1			26	0.98
Port Maintenance	7	5	7	3	1			23	0.86
Control Tower	4	5	8	1	1			19	0.71
Road to Port	5	2	1					8	0.30
• Crane		1	1	1	2			5	0.19
• Breakwater			3					3	0.11
Port Organization			1					1	0.04
3- Fisheries Law									
 Stopping Illegal Fishing Operations 	124	281	85	17	3	133		643	24.15
 Enforcing Fisheries Law 	173	116	104	3	8	2		406	15.25
 Modernizing Fisheries Law 	16	21	21	6	1			65	2.44
Banning Beach Seines	24	9	10	21	1			65	2.44
Banning Fishing Lights	32	13	7	6				58	2.18
Banning Purse Seines	11	13					1	25	0.94
 Monitoring of Syndicates & Cooperatives 	5	1	6		1			13	0.49

Table 34 List of Remarks given by vessel owners/operators

Remarks	1	2	3	4	5	6	7	Total	%
3- Fisheries Law (continued)									
Banning Speargun	1	3	6					10	0.38
Surveillance of Coastal areas	2	1	4					7	0.26
• Stop monopolization of fishing grounds		1	1	4				6	0.23
• Enforcing Fisheries Law (Purse Seines)	4							4	0.15
Regulation of Fisheries Sector	1		1					2	0.08
 Prevent non-fishermen from joining Cooperatives 		1						1	0.04
Regulation of beach seines			1					1	0.04
4- Aid To Fishermen									
• Aid	159	295	112	12	138	1	1	718	26.97
Fish Import Calendar	5	23	20	17				65	2.44
Banning Fish Imports	1	4	9	5				19	0.71
Compensation for Natural Disasters		3	3	1				7	0.26
Regulating Fish Auction Yards	1	1	3					5	0.19
• Establishing Agriculture Credit Bank		1						1	0.04
• Poverty		1						1	0.04
5- Environment									
Stop Sea Pollution	16	29	30	3	1		1	80	3.01
Cleaning polluted Sea	16	19	11	2	1			49	1.84
6- Palestinians									
• Permit Palestinians to own Fishing	•	•	1	1				(0.00
Vessels	2	2	1	1				6	0.23
Work Permits for Palestinians	3							3	0.11
7- Sea Rescue									
Sea Rescue Equipment	1	4	4	5			1	15	0.56
8- Fishing Operations									
Modernizing Fishing Methods	8	4	5					17	0.64
• Lack of Abundance of Fish	9	2	3	1	2			17	0.64
• Training of fishermen		8	2					10	0.38
Control of Dolphins		1	1	1				3	0.11
9- Miscellaneous									
Establishing a Port					18	3		21	0.79
• Establishing a Port at Halat	4	3	1					8	0.30
Lowering Taxes	1		1	3				5	0.19
 Allowing Vessel to operate for Recreation 	1	1	2					4	0.15
Protecting Fish Prices			3					3	0.11
Joining Cooperative	1			1				2	0.08
Permitting Vessel to Fish	2							2	0.08
 Activation Cooperatives & Syndicates Role 		2						2	0.08
Help Developing Fisheries Sector	1							1	0.04
Construct a cooperative facility at the Port		1						1	0.04
Total Respondents	1980	1593	956	375	201	150	7	5262	197.67

Table 34 (continued) List of Remarks given by vessel owners/operators

II- Inland Fishing Vessels: These were found around the inner lake of Qaraoun in Bekaa Valley. There were only 18 vessels fishing there i.e. <1% of fishing fleet. There could be more vessels in other areas, but could not be located by the MOA personnel.

1.0 Vessels Characteristics: Table 35 shows that half of the 18 fishing vessels had no official registration number. Fifteen vessels were flouka type while the remaining were oars. Seven vessels were not operational when surveyed due to engine/vessel repair. None was decked.

Desistantian Status	Operational Status	Vessel t	Vessel type				
Registration Status	Operational Status	Flouka	Oars	Grand Total			
No Registration	Non operational	4	1	5			
-	Operational	2	2	4			
Registered	Operational	7		1			
-	Non operational	2		1			
Grand Total		15	3	18			

Table 35 Distribution of Registration and Operational Status for Inland Fishing Vessels

2.0 Fishing Authorization: Table 36 indicates that 14 vessels had a valid license for 2004.

Fishing Authorization Year	Total
2000	1
2001	1
2003	1
2004	14
(blank)	1
Grand Total	18

3.0 Structural Characteristics: the range of length of vessels was 3.5-6.6 m (Table 37). GRT range was 1.25-2.0 tons.

	GRT	2	, (,				8		
Length LOA, m	1.25	1.25	1.3	1.46	1.65	1.72	1.84	2.01	(blank)	Grand Total
3.5									1	1
3.51									1	1
3.63									1	1
3.85									1	1
3.9									1	1
4		1							1	2
4.5									1	1
4.95	1									1
5.35			1							1
5.4					1					1
5.5				1						1
5.65						1				1
6.12									1	1
6.2							1		1	2
6.3								1		1
6.63									1	1
Grand Total	1	1	1	1	1	1	1	1	10	18

 Table 37 Distribution of Length (LOA) & GRT for Inland Fishing Vessels

Table 38 indicates that all vessels, except for one, were constructed in Lebanon. The vessel that was constructed abroad was a wooden boat made in Palestine in 1945. The wooden and/or wooden/fiberglass fishing vessels were constructed before 1975. The remaining nine iron/steel vessels were locally made at and after 1993.

Construction country	Construction year	H	Hull material				
Construction country	Construction year	Iron/Steel	Wood	Wood/Fiber	Grand Total		
Lebanon	1951		1		1		
	1952		1		1		
	1961		1		1		
	1968		1		1		
	1970			1	1		
	1973		1		1		
	1975		1		1		
	1993	1			1		
	1994	1			1		
	1995	1			1		
	1997	1			1		
	1998	1			1		
	1999	1			1		
	2000	2			2		
	2004	1			1		
	(blank)		1		1		
Palestine	1945		1		1		
Grand Total		9	8	1	18		

Table 38 Hull material and Construction Year & Country of Inland Fishing Vessels

4.0 Engines: Half the vessels had inboard engines that were manufactured by Daya, Lister, and Petter (Table 39). These were diesel-fired engines (Table 40). The engine horsepower ranged from 4.5 to 9.5 hp.

Table 39 Engine Manufacture	ers and Type for I	nland Fishing Vessels

Manufacturer	Тур	Grand Total	
Manufacturer	Outboard	Inboard	Grand Total
Daya		1	1
Lister		3	3
Petter		5	5
Yamaha	4		4
(blank)	5		5
Grand Total	9	9	18

Engine (hp)		Energy source						
Engine (hp)	Diesel	Petrol/gasoline mixed with oil	(blank)	Grand Total				
4.5	1			1				
5	5			5				
5.5	1			1				
7	1			1				
8		4		4				
9		1		1				
9.5	1			1				
(blank)			4	4				
Grand Total	9	5	4	18				

Table 40 Energy Source and Horsepower of Inland Fishing Vessels

5.0 Electronic Equipment: Only five vessel owners possessed a cellular phone while no one owned and/used navigation equipment, fish finders or any other type of electronic equipment.

6.0 Deck Machinery: gear activation was manual while no vessel carried any type of winches.

7.0 Ownership: Data indicated that one person owned each of 15 vessels, while three vessels were owned by two persons each. All owners were Lebanese. More than half the fishermen are in there 40s (Table 41), while 22% are in there 20s and 30s. The remaining fishermen were in there 50s, 60s, and 70s. Data showed that they were mainly from the village of Qaraoun (61%) and Lala (33%). One fisherman was from the village of Saghbine. All three villages are around Qaraoun Lake.

Owney birth week	Oper	Operator					
Owner birth year	Operator	Owner	Grand Total				
1929		1	1				
1940		1	1				
1941		1	1				
1948		1	1				
1957		1	1				
1959		3	3				
1961		1	1				
1962	1	1	2				
1963		1	1				
1965		2	2				
1969		1	1				
1976		1	1				
1980	1	1	2				
Grand Total	2	16	18				

Table 41 Age distribution of Inland Fishermen

8.0 Crew

8.1 Crew Number: Fig. 75 shows that the minimum number of crew was 18, while the maximum and usual number of crew was practically the same (39).



Fig. 75 Number of Crew aboard Inland Fisheries Vessels

8.2 Crew Nationality: all vessel owners/operators reported that there crews were Lebanese.

8.3 Cooperative and Syndicate membership: 15 fishermen belonged to one syndicate namely the Qaraoun Lake Fishermen Syndicate. There is no fishermen cooperative in the region.

9.0 Ports of operation: there are no officially recognized ports in the region. The landing or tie-up sites are along the lakeshore near there respective villages. During winter, the vessels are towed for protection inside the villages.

10.0 Fishing Operations: All vessel owners reported that they use trammel nets and that they fish during the whole year. The number of sorties was between 15 and 25 sorties per month with half of fishing being at the rate of 20 sorties per month. All were targeting the species available in the lake i.e. carp and catfish.

11.0 Fish Processing and Preservation Equipment: this was limited to a hold for fresh fish that did not exceed 20 liters capacity.

12.0 Other Equipment: no other equipment was available aboard the inland fisheries vessels.

13.0 Safety Equipment: 16 vessels had life vests aboard and four carried buoys (Table 42).

Number of Safety Equipment/Vessel	Life vests (No of vessels)	Buoys (No of vessels)
1	10	1
2	6	2
4	0	1
(blank)	2	14
Grand Total	18	18

Table 42 Distribution of Safety equipment aboard Inland Fisheries Vessels

14.0 Fishermen's Remarks: all fishermen requested aid, alleviation of the pollution of the lake and that the MOA put fish fingerlings in the lake. Establishing a port, social security and health security were requested by one each.

B- Fishing Ports Survey

Dr. Dahij Mukdad, Marwan Ghosh, and Samir Majdalani conducted the survey. There were 44 ports and landing sites along the Lebanese coast in the 5 coastal governorates (Table 43). The largest number (17) was located in Mount Lebanon. It was followed by North Lebanon with 12 of ports/landing sites. All the facilities in administrative Beirut were official recognized, while only one out of four was so in Akkar. Appendix 4 shows the ports survey questionnaire.

Governorate	Official Por	Grand Total	
Governorate	No	Yes	Granu Totai
Akkar	3	1	4
Beirut		4	4
Mount Lebanon	7	10	17
North	3	9	12
South	1	6	7
Grand Total	14	30	44

Table 43 Distribution of Ports/Landing Sites in Coastal Governorates

1.0 Official Status & Coordinates: the Ministry of Transportation & Public Works officially recognized thirty ports/landing sites, while 14 were not (Table 44). Fig. 76 shows the location of the pots/landing sites on the map of Lebanon.

Table 45 lists the liaison port or Harbor Master, which has jurisdiction over those facilities. This jurisdiction is only regarding registering the new fishing vessels and renewing navigation licenses. Each official fishing port/landing is under the direct supervision of the Department of Maritime Navigation of the Ministry of Transportation & Public Works that oversees the construction and maintenance of new and existing facilities.

Name of David / Landing side	Coordinator (Lombort)	Official Port /Landing site			
Name of Port / Landing site	Coordinates (Lambert)	No	Yes		
Aarida	0173962 0298915		Х		
Cheikh Zennad	0174803 0296095		Х		
Hay el Bahr	0175333 0291813	Х			
Aabde	0173824 0286487		Х		
Tripoli - Al Mina	0159101 0279474		Х		
Tripoli - Huqran	0158200 0279417		Х		
Qalamoun	0156291 0272323		X		
Enfe - Nuhairy	0151588 0269607		X		
Enfe - Dabbaghah	0150817 0269142		X		
Enfe - Rmeilet	0150983 0268287		X		
Chekka	0150209 0265464		X		
Heri	0148036 0263231		X		
Hamat-Roca Marina	0148030 0203231 0147917 0263398	Х	Λ		
		Λ	V		
Selaata	0144024 0260430		X		
Batroun	0144068 0257739		X		
Fadous	0143747 0254445		Х		
Barbara	0141657 0250573	Х			
Aamchit	0141206 0246101		Х		
Jbail	0142482 0242783	Х			
Halat - Al Fidar	0143120 0240098	Х			
Halat	0142863 0238295	Х			
Aaqaibe	0142235 0235606	Х			
Bouar	0141620 0234872	Х			
Safra	0140909 0233699		Х		
Tabarja	0141447 0230955	Х			
Jounieh - Kaslik	0140658 0227448		Х		
Dbaiye	0137229 0223094	Х			
Jamil Gemayyel	0148897 0218461	X			
Dora	0133549 0218011	Λ	Х		
Beirut- Ain Mraisseh	0127678 0218548		X		
	012/6/8 0218548				
Beirut - Jal el Bahr		V	Х		
Beirut- Manara	0126073 0218413	Х	37		
Beirut- Dalieh	0126238 0216994		Х		
Jnah - Cote D'Azour	0127055 0214444		Х		
Ouzaii	0127060 0211727		Х		
Naame	0123887 0201579	Х			
Jiye	0120160 0190871		Х		
Saida	0115923 0181344		Х		
Zeereh	0109999 0171103		Х		
Ain Qantara	0109120 0170414	Х			
Mounis	0107206 0168380		Х		
Sour	0099284 0149472		X		
Sour- Rest House	0100061 0148368		X		
Naqoura	0094165 0133267		X		
Grand Total	007103 0133207	14	30		
Grand Total		14	30		

Table 44 List of Official Status of Lebanese Coastal Ports/Landing Sites



Nome of Dout / Londing site	Liaison Port (Harbor Master)								
Name of Port / Landing site	Beirut	Chekka	Jbail	Jounieh	Saida	Sour	Tripoli		
Aamchit			Х						
Aaqeibe				Х					
Aarida							Х		
Aabde							Х		
Ain Qantara					Х				
Barbara			Х						
Batroun		Х							
Beirut - Ain el Mraisseh	Х								
Beirut - Dalieh	Х								
Beirut - Jal el Baher	Х								
Beirut - Manarah	Х								
Bouar				Х					
Cheikh Zennad							Х		
Chekka		Х							
Dbaiye	Х								
Dora	Х								
Enfe - Dabbaghah		Х							
Enfe - Nuhairy		Х							
Enfe - Rmeilet		Х							
Halat			Х						
Halat - Al Fidar			Х						
Hamat - Roca Marina		Х							
Hay el Bahr							Х		
Heri		Х							
Jamil Gemayyel	Х								
Jbail			Х						
Jiye					Х				
Jnah - Cote D'Azour	Х								
Jounieh - Kaslik				Х					
Kfar Aabida -Fadous		Х							
Mounis					Х				
Naame	Х								
Naqoura						Х			
Ouzaii	Х								
Qalamoun							Х		
Safra				Х					
Saida					Х				
Selaata		Х							
Sour						Х			
Sour - Rest House						Х			
Tabarja				Х					
Tripoli - Al Mina							Х		
Tripoli - Huqran							Х		
Zeereh					Х				
Grand Total	10	9	5	5	5	3	7		

Table 45 List of Liaison Ports for Lebanese Coastal Ports / Landing Sites

2.0 Physical Characteristics

2.1 Breakwater

2.1.1 Necessity: it was necessary for all ports/landing sites, except for Aarida, Enfe-Nuhairy, and Enfe-Rmeilet, which were naturally protected.

2.1.2 Types: Table 46 shows that 15 ports/landing sites had rubble breakwaters, three reinforced walls breakwaters and two had other precast concrete structures (cubes) breakwaters. Ten ports had a rubble & reinforced concrete breakwater, while only one had rubble and precast concrete cubes breakwaters. The length of the breakwaters varied from 20m for Beirut-Manara Port to 503m for Ouzaii Port.

2.2 Port Basins

2.2.1 Fish handling basin for offloading: there was 36 ports/landing sites with fish handling basin for offloading (Table 47). There were eight sites with no such facility. The size of fish offloading basin ranged from 32m for Enfe-Dabbaghah Port up to 1,306m for Tripoli-Al Mina Port. The distribution of the size of fish offloading basin can be seen in Fig. 77. The figure indicates that the size of the fish-offloading basin for 24 ports/landing sites was less than 300m; however, the basins for the major ports e.g. Dora were larger than 500 m.

2.2.2 Boat Servicing Basin for Maintenance: only three ports had such a facility. They were namely Tripoli-Al Mina, Zeereh, and Chekka. The size of those basins was 30, 90, and 64m simultaneously.

2.2.3 Lifting Equipment: Table 48 indicates that most ports (36) resort to contractors to lift the vessels from the basins. Only eight ports/landing sites had manual/electrical/hydraulic lift winches.

2.3 Quay/Jetty Wall

2.3.1 Quay: Table 49 shows that 32 ports/landing sites had solid construction (reinforced concrete) quays while four had quays on piles. No ports had a floating quay. The length of quay varied between 20m for Halat-Al Fidar Landing Site and 920m for Dora Port. The width varied between <1m for Aaqaibe Port to about 6m for Tabarja Port. All basins were shallow and the depth was between 1 and 2 m.

2.3.2 Jetty: only four ports had this structure (Table 50) namely Beirut-Manarah, Ouzaii, Saida and Sour ports. The types were either Timber/Precast concrete with timber/steel/reinforced concrete piles or Floating: timber over treated empty oil drums or plastic drums.

		Type of Bre				
Name of Port/ Landing Site	Rubble	Reinforced Concrete Wall	Other Precast Concrete structures	Length of Breakwater (m)		
Aabde	Х			220		
Aamchit	Х	Х		246		
Aaqeibe	Х			220		
Aarida						
Ain Qantara	Х	Х		27		
Barbara	Х	Х		45		
Batroun	X	X		140		
Beirut - Ain el Mraisseh			Х	20		
Beirut - Dalieh			X	20		
Beirut - Jal el Baher				20		
Beirut - Manarah	Х			57		
Bouar	X			201		
Cheikh Zennad	Δ			201		
Chekka	Х	Х		223		
	X	Λ	Х	300 ¹		
Dbaiye	Λ		Λ			
Dora	V			360		
Enfe - Dabbaghah	X			89		
Enfe -Nuhairy	Х					
Enfe - Rmeilet						
Halat						
Halat - Al Fidar						
Hamat - Roca Marina	Х					
Hay el Bahr						
Heri	Х			164		
Jamil Gemayyel						
Jbail		Х		49		
Jiye	Х					
Jnah - Cote D'Azour						
Jounieh - Kaslik	Х	Х		102		
Kfar Aabida -Fadous	Х	Х		33		
Mounis						
Naame						
Naqoura		Х		194		
Ouzaii	Х			503		
Qalamoun	X			50		
Safra				40		
Saida		Х		160		
Selaata	Х			200		
Sour	X	Х		315		
Sour - Rest House	X	Δ		45		
	X	Х		43 75		
Tabarja Tripoli Al Mino	X	Λ				
Tripoli - Al Mina				346 ²		
Tripoli - Huqran	X	v		114		
Zeereh	X	X		253		
Grand Total	26	13	3			

Table 46 Type & Length of breakwaters of Coastal Ports & Landing Sites

1: under extension

2: 175m were recently added; there is an External Breakwater: 1 km long

Name of Port/Landing siteAabdeAamchitAaqeibeAaridaAaridaAin QantaraBarbaraBatrounBeirut - Ain el MraissehBeirut - DaliehBeirut - Jal el BaherBeirut - ManarahBouarCheikh ZennadChekkaDbaiyeDoraEnfe - DabbaghahEnfe - NuhairyEnfe - RmeiletHalat	Fish handling basin for offloading X<	Length (m) 540 209 512 (blank) 150 60 250 120 140 (blank) 266 330 (blank) 250 480 220
AaqeibeAaridaAaridaAin QantaraBarbaraBatrounBeirut - Ain el MraissehBeirut - DaliehBeirut - Jal el BaherBeirut - ManarahBouarCheikh ZennadChekkaDbaiyeDoraEnfe - DabbaghahEnfe - NuhairyEnfe - Rmeilet	X X X X X X X X X X X X X X X X X X X	512 (blank) 150 60 250 120 140 (blank) 266 330 (blank) 250 480
Aarida Ain Qantara Barbara Batroun Beirut - Ain el Mraisseh Beirut - Dalieh Beirut - Jal el Baher Beirut - Manarah Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X X X X X X X X X X X X X X	512 (blank) 150 60 250 120 140 (blank) 266 330 (blank) 250 480
Aarida Ain Qantara Barbara Batroun Beirut - Ain el Mraisseh Beirut - Dalieh Beirut - Jal el Baher Beirut - Manarah Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X X X X X X X X X X X	(blank) 150 60 250 120 140 (blank) 266 330 (blank) 250 480
Ain Qantara Barbara Batroun Beirut - Ain el Mraisseh Beirut - Dalieh Beirut - Jal el Baher Beirut - Manarah Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X X X X X X X X X X	150 60 250 120 140 (blank) 266 330 (blank) 250 480
Barbara Batroun Beirut - Ain el Mraisseh Beirut - Dalieh Beirut - Jal el Baher Beirut - Manarah Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X X X X X X X X X X	60 250 120 140 (blank) 266 330 (blank) 250 480
Batroun Beirut - Ain el Mraisseh Beirut - Dalieh Beirut - Jal el Baher Beirut - Manarah Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X X X X X X X X	250 120 140 (blank) 266 330 (blank) 250 480
Beirut - Ain el Mraisseh Beirut - Dalieh Beirut - Jal el Baher Beirut - Manarah Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X X X X X X	120 140 (blank) 266 330 (blank) 250 480
Beirut - Dalieh Beirut - Jal el Baher Beirut - Manarah Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X X X X	140 (blank) 266 330 (blank) 250 480
Beirut - Jal el Baher Beirut - Manarah Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X X	(blank) 266 330 (blank) 250 480
Beirut - Manarah Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X	266 330 (blank) 250 480
Bouar Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X X X X	330 (blank) 250 480
Cheikh Zennad Chekka Dbaiye Dora Enfe - Dabbaghah Enfe -Nuhairy Enfe - Rmeilet	X X X X X	(blank) 250 480
Chekka Dbaiye Dora Enfe - Dabbaghah Enfe - Nuhairy Enfe - Rmeilet	X X X	250 480
Dbaiye Dora Enfe - Dabbaghah Enfe -Nuhairy Enfe - Rmeilet	X X X	480
Dora Enfe - Dabbaghah Enfe -Nuhairy Enfe - Rmeilet	X X	
Enfe - Dabbaghah Enfe -Nuhairy Enfe - Rmeilet	Х	1 11 11 1
Enfe -Nuhairy Enfe - Rmeilet		920
Enfe - Rmeilet	V	32
	X	270
Halaf	Х	65
		(blank)
Halat - Al Fidar	X	70
Hamat - Roca Marina	Х	(blank)
Hay el Bahr		(blank)
Heri	Х	164
Jamil Gemayyel	Х	(blank)
Jbail	Х	230
Jiye	Х	30
Jnah - Cote D'Azour		(blank)
Jounieh - Kaslik	Х	302
Kfar Aabida - Fadous	Х	102
Mounis	Х	96
Naame		(blank)
Naqoura	Х	200
Ouzaii	Х	620
Qalamoun	Х	250
Safra		(blank)
Saida	Х	425
Selaata	Х	267
Sour	X	618
Sour - Rest House	X	50
Tabarja	X	250
Tripoli - Al Mina	X	1,306
Tripoli - Huqran	X	150
Zeereh	X	245
Grand Total	36	273

Table 47 List of Coastal Ports/Landing Sites with Fish handling basin for offloading



Fig. 77 Size of Fish Handling Basin for Offloading

Name of Port / Landing site	Hand operated	Electrical	Hydraulic	Other
Aarida	-		•	Contractor
Cheikh Zennad				Contractor
Hay el Bahr				Contractor
Aabde				Contractor
Tripoli - Al Mina				Contractor
Tripoli - Huqran				Contractor
Qalamoun				Contractor
Enfe - Nuhairy			Х	
Enfe - Dabbaghah				Contractor
Enfe - Rmeilet				Contractor
Chekka			Х	
Heri				Contractor
Hamat - Roca Marina				Contractor
Selaata				Contractor
Batroun				Contractor
Kfar Aabida -Fadous				Contractor
Barbara				Contractor
Aamchit				Contractor
Jbail				Contractor
Halat - Al Fidar				Contractor
Halat				Contractor
Aageibe				Contractor
Bouar				Contractor
Safra				Contractor
Tabarja				Contractor
Jounieh - Kaslik				Contractor
Dbaiye				Contractor
Jamil Gemayyel				Contractor
Dora				Contractor
Beirut - Ain el Mraisseh	Х			
Beirut - Jal el Baher				Contractor
Beirut - Manarah		Х		
Beirut - Dalieh	Х	Х		
Jnah - Cote D'Azour				Contractor
Ouzaii				Contractor
Naame				Contractor
Jiye				Contractor
Saida			Х	
Zeereh				Contractor
Ain Qantara				Contractor
Mounis				Contractor
Sour		Х	Х	
Sour - Rest House				Contractor
Naqoura	Х			
Grand Total	3	3	4	36

Table 48 List of Lifting Equipment at the Coastal Ports/Landing Sites

		•	Length	Width	Depth	
Name of Port / Landing site	Solid Construction	Piles	Floating (timber/drums)	(m)	(m)	(m)
Aarida			, , ,			
Cheikh Zennad						
Hay el Bahr						
Aabde	Х			150	3.5	0.5 - 1
Tripoli - Al Mina	Х	Х		340	1.5	1 - 2
Tripoli - Huqran	Х			100	0.5	1 - 2
Qalamoun	Х			240	2 / 4 (new)	0.8 - 0.9 / 3 (new)
Enfe -Nuhairy	Х			280	2	1 - 1.5
Enfe - Dabbaghah	Х			32	2	2
Enfe - Rmeilet	Х			40	2	1
Chekka	Х			250	1 - 8	0.5 - 4
Heri						
Hamat - Roca Marina	Х			N/A*	4	N/A*
Selaata		Х		110	6	3
Batroun	Х			250	4	1
Kfar Aabida -Fadous	Х			102	1 - 1.5	1 - 3
Barbara	Х			60	1.5	1.5
Aamchit	Х			209	4	1.25 - 2
Jbail	Х			235	6	3
Halat - Al Fidar	Х			20	10	N/A**
Halat					_	
Aaqeibe	Х			238	4	<1 - 2
Bouar	X			71	1 - 6	1.5 - 3
Safra					_	
Tabarja	X			126	10	2 - 6
Jounieh - Kaslik	X			302	8	2.5 - 3
Dbaiye	X			480	4.5	1 - 2
Jamil Gemayyel	Х			N/A*	N/A*	N/A*
Dora		Х		920	1.25	1 - 1.5
Beirut - Ain el Mraisseh	Х			120	1.25 - 3	1.5
Beirut - Jal el Baher				-		
Beirut - Manarah	Х			266	5	1.5 - 2
Beirut - Dalieh	Х			40	7	1
Jnah - Cote D'Azour						
Ouzaii	Х			154	10	5
Naame						
Jiye						
Saida	X			425	2	1 - 2
Zeereh	X			245	2	1 - 2
Ain Qantara	X			57	5	1
Mounis	X	Х		96	6	1 - 2
Sour	X			618	4	2
Sour - Rest House	X			50	4	1
Naqoura	X			200	N/A**	1
Grand Total	32	4		200	- 1/ / -	1

Table 49 Type and Dimensions of Quays of Coastal Fishing Ports/Landing Sites

* Custodians did not allow MOA personnel to take measurements.

** Could not measure the item

Name of Port /	Туре		Longth	W/: J4h	Donth	
Landing site Timber/Precast cond		Floating: timber over drums	Length (m)	Width (m)	Depth (m)	
Beirut - Manarah		Х	37	1.25	1.5	
Ouzaii		Х	54	2		
Saida	Х		76	1.5	1	
Sour	Х		45 + 48	4	2	

Table 50 Type and Dimensions of Jetties of Coastal Fishing Ports/Landing Sites

2.4 Slipway

2.4.1 Type: Twenty-two fishing ports were equipped with at least one slipway (Table 51). They were all concrete except for Tripoli-Al Mina Port (concrete & timber) and Zeereh Port (sand/Rubble). The width of the slipway varied between 3m for Enfe-Rmeilet landing site and 40m for Tripoli-Al Mina Port.

2.4.2 Winch: only seven ports with slipways were equipped with 1-2 winches to tow vessels. These were manually, electrically, or hydraulically operated.

2.5 Tie-up Area for Boats: 22 fishing ports/landing sites had a tie-up area for vessels. This was primarily for anchorage (Table 52). This area was also used for vessels waiting for maintenance and/or spare parts and for other reasons.

2.6 Mooring Fittings

2.6.1 Bollards: Table 53 shows that 19 ports/landing sites had steel bollards while three had other types e.g. concrete.

2.6.2 Mooring Rings: 25 ports had mooring rings (Table 53). This indicates that nine ports/landing sites have both bollards and mooring rings for vessels anchorage.

2.6.3 Fenders: Individual fenders (used car tyres as fenders) were the only type found in 37 ports/landing sites (Table 53). No continuous timber fenders or vertical timber strips were found at any facility.

2.6.4 Mooring Lines and sinkers:

- **2.6.4.1 Galvanized Chain/Rope:** this was found at almost all (38) ports/landing sites (Table 53). They were mostly ropes, but three ports had galvanized chains.
- **2.6.4.2 Shackle**: Only one port, namely Beirut-Ain el Mraisseh had a "D" shackle (Table 53).
- **2.6.4.3 Buoys**: were found at 16 ports/landing sites (Table 53).
- **2.6.4.4 Vessel's own anchor:** was used at all facilities except at the ports at Kfar Aabida-Fadous and Beirut-Dalieh (Table 53).

Name of Port /	Slipway				Winch			
Landing site	Number	Туре	Width (m)	Length (m)	Number	Туре	Capacity (ton)	
Aarida								
Cheikh Zennad								
Hay el Bahr								
Aabde	1	Concrete	20	25				
Tripoli - Al Mina	1	Concrete & Timber	40	30	2	Electrical	90/30	
Tripoli - Huqran	1	Concrete	5	15	1	Electrical		
Qalamoun	1		5	10				
Enfe -Nuhairy	2	Concrete	5/12	20	1	Hand Operated Electrical		
Enfe - Dabbaghah								
Enfe - Rmeilet	1	Concrete	3	6				
Chekka	1	Concrete	24	20		Hand Operated		
Heri	_		-			······································		
Hamat - Roca Marina Selaata	2	Concrete	2/4	6/6				
Batroun	3	Concrete	13/5/4	9/8/8	1	Electrical	2	
Kfar Aabida -Fadous	1	Concrete	4	30	1	Electrical	2	
Barbara	1	Concrete	4	20	1	Licetiteat	2	
Aamchit	1	Concrete	5	6				
Jbail	1	Concrete	10	10				
Halat - Al Fidar	1	Concrete	3	6				
Halat	1	Concrete	5	0				
Aaqeibe	1	Concrete	9	20				
Bouar	1	Concrete	7	20				
Safra								
Tabarja	1	Concrete	4	15				
Jounieh - Kaslik	1	Concrete	4	15				
Dbaiye								
Jamil Gemayyel								
Dora								
Beirut - Ain el Mraisseh	1	Concrete	4	8				
Beirut - Jal el Baher	1	Concrete	4	0				
Beirut - Manarah	1	Concrete	6	15				
Beirut - Dalieh	1	Concrete	4	10				
Jnah - Cote D'Azour	1	Concrete	4	10				
Ouzaii								
Naame								
Jiye Saida	2	Concrete	10/4	40/8	1	Hydraulic		
Zeereh	2 1	Sand/Rubble	10/4	40/8 30	1	пушаши		
	1	Sanu/Kuddie		30				
Ain Qantara								
Mounis	2	Commete	А	10/50	2	Elestri1		
Sour Dest House	2	Concrete	4	40/50	2	Electrical		
Sour - Rest House								
Naqoura								

Table 51 Type of Slipways & Winches at Lebanese Coastal Fishing Ports/Landing Sites

	Pageon							
Name of Port / Landing site	For anchorage	Awaiting maintenance/spares	Other					
Aarida	X							
Cheikh Zennad	Х							
Hay el Bahr	X							
Aabde	X	Х						
Tripoli - Al Mina	X	X						
Tripoli - Huqran	X							
Qalamoun								
Enfe -Nuhairy								
Enfe - Dabbaghah								
Enfe - Rmeilet								
Chekka								
Heri								
Hamat - Roca Marina								
Selaata								
Batroun								
Kfar Aabida -Fadous								
Barbara								
Aamchit								
Jbail								
Halat - Al Fidar	Х							
Halat								
	Λ							
Aaqeibe								
Bouar	Х							
Safra	А							
Tabarja								
Jounieh - Kaslik								
Dbaiye	V							
Jamil Gemayyel	X	V						
Dora	Х	Х						
Beirut - Ain el Mraisseh	37							
Beirut - Jal el Baher	X	N						
Beirut - Manarah	X	Х						
Beirut - Dalieh	X							
Jnah - Cote D'Azour	X							
Ouzaii	Х							
Naame								
Jiye	X	X	X					
Saida	Х	Х	Х					
Zeereh								
Ain Qantara								
Mounis								
Sour	Х		no place shallow port					
Sour - Rest House								
Naqoura								

Table 52 Availability of Tie-up area for boats at Lebanese Coastal Fishing Ports/Landing Sites

					Mooring lines and sinkers					
Name of Port / Landing site	Bollards	Mooring ring	Fenders	Galva cha		Ro	-	Shackle "D"	Buoys	Vessel's own anchor
				LOA	Dia	LOA	Dia			
A :1	0.1			m	cm	m	cm		V	N
Aarida	Other		37	20	2				Х	X
Cheikh Zennad	Other		X	20	2					Х
Hay el Bahr				20	2	_			X	Х
Aabde	Steel		Х			5	2		Х	Х
Tripoli - Al Mina	Steel		Х			10	1		Х	Х
Tripoli - Huqran	Steel	Х	X X			10 10	1		Х	X
Qalamoun	Steel (new)	(old)	Λ			10	2			Х
Enfe -Nuhairy	(new)	X	Х			15	1			Х
Enfe - Dabbaghah		X	X			20	1			X
Enfe - Rmeilet		X	X			20	1			X
Chekka		X	X			20	2			X
		X	X			20				X
Heri	G(+ - 1	Λ					1			
Hamat - Roca Marina	Steel	37	X			10	1			X
Selaata	G 1	X	X			10	2			Х
Batroun	Steel	Х	X			10	1			Х
Kfar Aabida -Fadous		X	X			25	2			
Barbara		Х	Х			15	1.5			Х
Aamchit		Х	Х			10	1			Х
Jbail	Steel	Х	Х			5	1			Х
Halat - Al Fidar		Х	Х							Х
Halat		Х	Х							Х
Aaqeibe	Steel		Х			10	1		Х	Х
Bouar	Steel	Х	Х			15	1		Х	Х
Safra		Х	Х							Х
Tabarja		Х	Х			6	1		Х	Х
Jounieh - Kaslik	Steel	Х	Х			10	1		Х	Х
Dbaiye	Steel	Х	Х			10	1		Х	Х
Jamil Gemayyel		Х	Х			20	1		Х	Х
Dora	Steel	Х	Х			15	< 1		Х	Х
Beirut - Ain el										
Mraisseh	Steel		Х			10	1	Х	Х	Х
Beirut - Jal el Baher		Х	Х			10	1		Х	Х
Beirut - Manarah	Steel		Х			10	1		Х	Х
Beirut - Dalieh		Х	Х			30	1			
Jnah - Cote D'Azour						10	1		Х	Х
Ouzaii		Х	Х			10	1			Х
Naame										Х
Jiye										Х
Saida	Steel		Х			6	1			Х
Zeereh	Steel		Х			10	1			Х
Ain Qantara	Steel	Х	Х			4	1			Х
Mounis	Other		Х			30	1			Х
~	(concrete)									
Sour	Steel	Х	Х			15	1			Х
Sour - Rest House	Steel					30	2.5			Х
Naqoura	Steel					25	2.5			Х

Table 53 List of Mooring Fittings at Lebanese Coastal Fishing Ports/Landing Sites

3.0 Navigation/Aids to Navigation Equipment

3.1 Navigation Equipment: no port was equipped with any navigation equipment.

3.2 Aids to Navigation: only five fishing ports had any aid to navigation. These were Landfall and Position Lights (Table 54). There were no lighted aids to navigation like lantern mounted on anchored floating buoy or fixed marker. Those lights can be distinguishable from each other by being there character (fixed, flashing or occulting) and color being white or red and white.

Name of Dout /	Cla	ass	Distinguishing Characteristics						
Name of Port / Landing site	Landfall	Position		Charact	er	(Color	Period	
Landing site	lights	lights	Fixed	Flashing	Occulting	White	Red/green	(sec)	
Tripoli - Al Mina		Х		Х		Х		20	
Selaata	Х						Х		
Tabarja	Х	Х	Х	Х					
Jounieh - Kaslik		Х	Х				Х		
Beirut - Manarah		Х			Х	Х	Х		

Table 54 Characteristics of Available Aids to Navigation at Coastal Fishing Ports

4.0 Refueling Point: only four ports had refueling facilities (Table 55). At the remaining ports/landing sites and, in part, at those ports mentioned in Table 55, fishermen resort to bringing along fuel (from local petrol stations) in personal containers.

Table 55 Refuel	Table 55 Refueining Fonds available at Debanese Coastar Fishing Forts							
Name of Port /]	Fuel Tank			
Landing site	Location	Туре	Fuel Type	Size (m3)	Тур			
				(1115)				

Table 55 Refueling Points available at Lebanese Coastal Fishing Ports

Landing site		J 1 -	J	(m3)	Туре
Tripoli-Al Mina	Central	Simple	Diesel	13	Galvanized steel
Qalamoun	Central	Simple	Diesel	2	Galvanized steel
Dbaiye	Central	Professional	Diesel	N/A	Galvanized steel
			Gasoline		
Zeereh	Small tanker belonging to coop	Professional	Diesel	N/A	Galvanized steel
Sour	2 location	Simple	Diesel	10	Galvanized steel

5.0 Wastes and Waste oil disposal/separation

5.1 Wastes: fishermen at 33 ports/landing sites conceded that they throw there slops directly into the sea (Table 56). There were garbage boxes at 20 fishing facilities. Collection of wastes at a central location (for eventual burning) was practiced in seven ports. Some sites will practice more than one collection facility. Municipalities were disposing off collected wastes at 20 facilities, while a collective effort (e.g. cooperative intervention) was taking care of this task.

5.2 Waste Oil: similarly, Table 57 indicates that vessel owners/operators at 23 ports/landing sites throw there waste oil directly into the sea. There are collection containers at 13 sites while at 16 fishing facilities waste oil is collected at one location (and, probably, eventually

burnt). Municipalities disposed off collected waste oil at 10 ports/landing sites, while this was done by other means (e.g. cooperatives at nine fishing facilities) at the other sites.

	(Collection	Disposal		
Name of Port / Landing site	Throw directly into sea	Collect in boxes	Collect in one location (then burn)	Municipality	Other
Aarida	Х				
Cheikh Zennad	X				
Hay el Bahr	X				
Aabde	X				
Tripoli - Al Mina	X		Х	Х	
Tripoli - Huqran	X				
Qalamoun	X		Х		
Enfe -Nuhairy			Х		
Enfe - Dabbaghah	Х				
Enfe - Rmeilet	Х				
Chekka	Х	Х		Х	
Heri	X				
Hamat - Roca Marina		Х		Х	
Selaata	Х				
Batroun	Х	Х		Х	
Kfar Aabida -Fadous	X				
Barbara	X		Х		
Aamchit	X	Х		Х	Х
Jbail		X		X	
Halat - Al Fidar	Х				
Halat	X				
Aaqeibe		Х		Х	
Bouar		X		X	
Safra	X				
Tabarja		Х		Х	
Jounieh - Kaslik		X		X	
Dbaiye		X		X	
Jamil Gemayyel	Х				
Dora	X		Х		
Beirut - Ain el Mraisseh		Х		Х	
Beirut - Jal el Baher	X	X		X	
Beirut - Manarah		X		X	
Beirut - Dalieh		X		X	
Jnah - Cote D'Azour	X				
Ouzaii	X	Х	Х		Х
Naame	X		~		
Jiye	X				
Saida	X	Х	Х	Х	
Zeereh	X	X		X	
Ain Qantara	X	X		X	
Mounis	X				
Sour	X	Х		Х	
Sour - Rest House	X				
Naqoura	X	Х		Х	

Table 56 Wastes Collection & Disposal at Lebanese Coastal Fishing Ports/Landing Sites

Name of Port /		Dispos	al		
	Throw directly	Collect	Collect in one	Municipality Oth	
Landing site	into sea	in drums	location		Other
Aarida	X				
Cheikh Zennad	Х	Х			
Hay el Bahr	Х				
Aabde	Х	Х			
Tripoli - Al Mina	Х		Х	Х	Х
Tripoli - Huqran	Х				
Qalamoun			Х		
Enfe -Nuhairy			X (burn)		
Enfe - Dabbaghah			Х		
Enfe - Rmeilet					
Chekka			Х	Х	
Heri			Х		
Hamat - Roca Marina		Х			Х
Selaata			Х	Х	
Batroun			Х	Х	Х
Kfar Aabida -Fadous	Х		Х		
Barbara			Х		
Aamchit			Х		
Jbail	Х	Х			
Halat - Al Fidar	Х				
Halat	Х				
Aaqeibe			Х		Х
Bouar			Х		Х
Safra	Х				
Tabarja		Х		Х	
Jounieh - Kaslik		Х		Х	
Dbaiye		Х		Х	
Jamil Gemayyel	Х				
Dora	Х	Х			
Beirut - Ain el Mraisseh			Х		Х
Beirut - Jal el Baher	Х	Х		Х	
Beirut - Manarah		Х		Х	
Beirut - Dalieh					
Jnah - Cote D'Azour	Х				
Ouzaii	Х		Х		Х
Naame	Х				
Jiye	Х				
Saida		Х	Х		Х
Zeereh	X				
Ain Qantara	Х				
Mounis	Х				
Sour		Х		Х	
Sour - Rest House	X				
Naqoura	Х	Х			Х

Table 57 Waste Oil Collection & Disposal at Lebanese Coastal Fishing Ports/Landing Sites

6.0 Freshwater Supply

6.1 Water Supply Source: Table 58 indicates the local water company supply freshwater to 17 ports/landing sites. Three ports also had boreholes/wells. Two sites had only water boreholes. A contractor supplied water to one port.

6.2 Water Reservoirs: there were elevated fresh water supply tanks at 19 ports/landing sites (Table 58). Fifteen of those were plastic (fiberglass/polyethylene) and five water reservoirs were made of concrete.

6.3 Pumps & accessories: three ports/landing sites were equipped with electrical water pumps (Table 58). The accessories were mainly steel (9) and PVC (8). Four ports/landing sites had water filters.

7.0 Sewage Disposal for Personal Sanitary Facilities & Fish Handling Areas

7.1 Personal Sanitary Facilities (Washrooms/Toilets): Table 59 shows that only 14 ports/landing sites were equipped with such facilities.

7.2 Sewage Disposal: five ports/landing sites were equipped with septic tanks (Table 59) that were being cleaned up either by a contractor or other non-disclosed means. Furthermore, two ports were equipped with soakways. There proximity to nearby urban centers and to ground water drinking supply, e.g. a shallow borehole or well, could not be determined. Six fishing ports were hooked up to municipal sewer lines. Sewage Effluent Treatment was not available at any location. It is thought that sewage disposal at non-equipped ports/landing sites, if any, is done directly into the sea.

Name of Port /		Elevated fresh w	ater supply tanks	Water	Fittings /	
Landing site	Water Supply	Туре	Water reservoir cu.m.	Pump	Accessories	
Aarida						
Cheikh Zennad						
Hay el Bahr						
Aabde	Well	Plastic	4		PVC	
Tripoli - Al Mina						
Tripoli - Huqran	Water Company					
Qalamoun	Water Company	Plastic	0.5		PVC	
Enfe - Nuhairy						
Enfe - Dabbaghah						
Enfe - Rmeilet						
Chekka						
Heri						
Hamat - Roca Marina	Water Company Well	Plastic		Electrical	PVC / Filter	
Selaata						
Batroun	Water Company	Plastic	2		PVC / Filter	
Kfar Aabida - Fadous						
Barbara						
Aamchit						
Jbail	Water Company	Plastic	0.5		PVC	
Halat - Al Fidar						
Halat						
Aaqeibe	Water Company Well	Plastic	0.25	Electrical	Galvanized Steel Filter	
Bouar	Water Company	Galvanized Steel	1		Galvanized Steel	
Safra						
Tabarja	Water Company	Galvanized Steel	1		Galvanized Steel	
Jounieh - Kaslik	Water Company	Galvanized Steel	2		Galvanized Steel	
Dbaiye	Water Company	Plastic	2		PVC	
Jamil Gemayyel						
Dora	Contractor	Plastic	2		PVC	
Beirut - Ain el Mraisseh	Water Company	Plastic	1			
Beirut - Jal el Baher						
Beirut - Manarah	Water Company	Plastic	4		Galvanized Steel	
Beirut - Dalieh	Well	Plastic	2	Electrical	Galvanized Steel Filter	
Jnah - Cote D'Azour						
Ouzaii	Water Company	Plastic	2		PVC	
Naame						
Jiye						
Saida	Water Company	Galvanized Steel	1		Galvanized Steel	
Zeereh	Water Company Well	Plastic	3		Galvanized Steel	
Ain Qantara						
Mounis						
Sour	Water Company	Galvanized Steel	1		Galvanized Steel	
Sour - Rest House						
Naqoura	Water Company	Plastic	3		Bronze	

Table 58 Water Source and Reservoirs at Lebanese Coastal Fishing Ports/Landing Sites

			Septic Ta	0		
Name of Port /	Toilets &	Septic	Cleanup		Municipal	Soakaway
Landing site	washrooms	Tank	Contractor	Other	sewer	,
Aarida						
Cheikh Zennad						
Hay el Bahr						
Aabde					Х	
Tripoli - Al Mina						
Tripoli - Huqran						
Qalamoun						
Enfe -Nuhairy						
Enfe - Dabbaghah						
Enfe - Rmeilet						
Chekka					Х	
Heri						
Hamat - Roca Marina	Х				Х	
Selaata						
Batroun						
Kfar Aabida -Fadous						
Barbara						
Aamchit	V	37		37	N	
Jbail	Х	Х		Х	Х	
Halat - Al Fidar						
Halat	V					
Aaqeibe	X X	Х		Х		Х
Bouar Safra	Λ	Λ		Λ		Λ
Tabarja	Х	Х		Х		Х
Jounieh - Kaslik	Λ	Λ		Λ		Λ
Dbaiye						
Jamil Gemayyel						
Dora						
Beirut - Ain el Mraisseh					Х	
Beirut - Jal el Baher						
Beirut - Manarah						
Beirut - Dalieh						
Jnah - Cote D'Azour						
Ouzaii	Х					
Naame						
Jiye						
Saida	Х	Х		Х	Х	
Zeereh	Х					
Ain Qantara						
Mounis						
Sour	Х					
Sour - Rest House						
Naqoura	Х	Х	Х			

Table 59 Sewage disposal for Personal sanitary facilities (toilets) & fish handling areas(fish stalls) at Lebanese Coastal Fishing Ports/Landing Sites

8.0 Fish hall for sorting, packing/selling and icing fish

8.1 Fish Stall/Auction: Table 60 shows that there were fish halls on-site at 16 ports/landing sites along the Lebanese coast. There were fish auctions at Dora, Ouzaii, and Saida Ports. The Aabde fish hall is not operational yet. There were fish auctions outside the major ports of Tripoli and Sour. Ten fish halls were constructed of concrete, while the rest were made of wood, metal or prefabricated.

8.2 Water Supply and Drainage Fourteen fish halls had freshwater water supply (Table 60). The drainage for five fish halls was through municipal sewers, six by means of soakaways/septic tank, and the rest drained there sewage effluent directly into the sea.

8.3 Cold Storage and Ice: seven fish halls were equipped with chill rooms/refrigerators and twelve with ice (Table 60). The ice format was mainly crushed. The ice source was ready-made crushed/blocks ice from commercial suppliers. No fish hall had iceboxes for sale to fishermen, processors, and households; thus, fishermen had to resort to buying such items from local vendors. Qalamoun, Saida, and Naqoura Ports were equipped with ice crusher.

9.0 Power Supply: Electricite du Liban (EDL) supplied electricity to 23 ports/landing sites (Table 61). Four ports had standby electrical generators, which were enough for the whole port in Jbail and Beirut-Dalieh Ports, for the fish auction at Ouzaii Port, and for the Syndicate building at Dora Port.

10.0 Storage: there were storage facilities at 11 ports/landing sites (Table 61). They were mostly concrete structures. The size of such storage facilities ranged between 16 and $65m^2$. Seventeen ports had individual rooms for fishermen. The size of such rooms ranged between $4m^2$ for Barbara Port and $25m^2$ for Bouar Port.

11.0 Boat building/maintenance facility: some kind of such facilities were available at 22 sites (Table 61).

12.0 Fishermen Cooperative/Syndicates Facilities: there was a cooperative at each officially recognized port. There were syndicate facilities at five ports (Table 62). Only twenty ports/landing sites were equipped with communication equipment being terrestrial or cellular phones. No other type of communication equipment was available.

Name of Port /	Construct	tion Material	Water		Cold Storage	& Ice	Ice
Landing site	Walls	Roof	source	Drainage	Chill Rooms/ Refrigerator	Ice	Format
Aarida					Reingerator		
Cheikh Zennad							
Hay el Bahr							
Aabde	Concrete	Other (brick)	Freshwater (well)	Sewer	N/A	N/A	N/A
Tripoli - Al Mina							
Tripoli - Huqran							
Qalamoun	Other	Metal	Freshwater	Into Sea	Х	Х	Crushed
Enfe -Nuhairy							
Enfe - Dabbaghah							
Enfe - Rmeilet							
Chekka							
Heri							
Hamat - Roca Marina							
Selaata							
Batroun							
Kfar Aabida -Fadous							
Barbara							
Aamchit							
Jbail	Wooden	Wooden	Freshwater	Sewer		Х	Crushed
Halat - Al Fidar							
Halat							
Aaqeibe	Other	Other	Freshwater	Into Sea	Х	Х	Crushed
Bouar	Concrete	Metal	Freshwater	Soakaway/ Septic Tank	Х	X	Crushed
Safra	~	~		~			
Tabarja	Concrete	Concrete	Freshwater	Soakaway/ Septic Tank			Crushed
Jounieh - Kaslik	Concrete	Concrete	Freshwater	Into Sea	х	Х	Crushed
Dbaiye	Concrete	Metal	Freshwater	Soakaway		х	Crushed
Jamil Gemayyel				5			
Dora	Concrete	Metal	Freshwater	Into Sea	Х	Х	Blocks
Beirut - Ain el Mraisseh	Concrete	Concrete	Freshwater	Sewer		Х	Crushed
Beirut - Jal el Baher							
Beirut - Manarah	Wooden	Metal	Freshwater	Into Sea		Х	Crushed
Beirut - Dalieh	Concrete	Concrete	Freshwater	Into Sea	Х		
Jnah - Cote D'Azour							
Ouzaii	Metal	Metal		Into Sea			Crushed
Naame							
Jiye							
Saida	Concrete		Freshwater	Sewer		Х	Crushed
Zeereh	Metal	Metal	Freshwater	Into Sea		Х	Blocks
Ain Qantara							
Mounis							
Sour							
Sour - Rest House							
Naqoura	Concrete	Metal	Freshwater	Septic Tank	Х		Crushed

Table 60 Characteristics of Fish Hall/Auction at Lebanese Coastal Fishing
Ports/Landing Sites

Name of Port /	Power supply			Storage	Individual rooms for fishermen		Boat building /	
Landing site	EDL	Generator KVA	Size m2	Construction Material	Number	Size m2	maintenance facility	
Aarida								
Cheikh Zennad								
Hay el Bahr								
Aabde	Х				14	20	Х	
Tripoli - Al Mina							Х	
Tripoli - Huqran								
Qalamoun	Х						Х	
Enfe -Nuhairy					17	9	Х	
Enfe - Dabbaghah								
Enfe - Rmeilet								
Chekka	Х				7	10	Х	
Heri								
Hamat - Roca Marina	Х							
Selaata							Х	
Batroun	Х						X	
Kfar Aabida -Fadous	X						X	
Barbara	X				1	4	11	
Aamchit	X		18	Concrete	1	-	Х	
Jbail	X	1	48	Other			X	
Halat - Al Fidar	Λ	1	-10	Other			А	
Halat								
Aaqeibe	х				5	4.5	Х	
Bouar	X				3 7	4.3 25	X	
Safra	л				/	23	Λ	
	Х				5	24	Х	
Tabarja			16	Comente	5	24		
Jounieh - Kaslik	X		16	Concrete	5	18	X	
Dbaiye	Х				4	8	Х	
Jamil Gemayyel			•••	a	25			
Dora	X	1	20'	Container	35	4		
Beirut - Ain el Mraisseh	Х				14	4	Х	
Beirut - Jal el Baher					1	4		
Beirut - Manarah	X	10	24	Concrete	37	6	X	
Beirut - Dalieh	Х	10	20	Concrete	5	5	Х	
Jnah - Cote D'Azour								
Ouzaii	Х	2.4	20	Concrete			Х	
Naame								
Jiye								
Saida	Х		65	Concrete	20	15	Х	
Zeereh	Х		16	Metal			Х	
Ain Qantara								
Mounis								
Sour	Х		N/A	Concrete	24	5	Х	
Sour - Rest House								
Naqoura	Х		36	Concrete				

Table 61 Power supply and storage facilities at Coastal Fishing Ports/Landing Sites

Name of Port /	Cooperative	Syndicate	Communication
Landing site	Facilities	Facilities	Equipment
Aarida			
Cheikh Zennad			
Hay el Bahr	Х		
Aabde	Х		
Tripoli - Al Mina	Х	Х	
Tripoli - Huqran			
Qalamoun	Х		
Enfe - Nuhairy	X		
Enfe - Dabbaghah	X		
Enfe - Rmeilet	X		
Chekka	X		
Heri	21		
Hamat - Roca Marina			Х
Selaata			<u> </u>
Batroun	Х		Х
Kfar Aabida - Fadous	X		Λ
Barbara	Λ		
Aamchit	Х		Х
Jbail	X		X
Halat - Al Fidar	Λ		Λ
Halat	V		V
Aaqeibe	X		X
Bouar	Х		Х
Safra			
Tabarja	X		X
Jounieh - Kaslik	X		X
Dbaiye	Х		Х
Jamil Gemayyel			
Dora	Х	Х	Х
Beirut - Ain el Mraisseh	Х		Х
Beirut - Jal el Baher			
Beirut - Manarah	Х		Х
Beirut - Dalieh	Х		Х
Jnah - Cote D'Azour	Х		Х
Ouzaii	Х	Х	Х
Naame			
Jiye	Х		Х
Saida	Х	Х	Х
Zeereh	Х		Х
Ain Qantara			Х
Mounis	Х		Х
Sour	Х	Х	Х
Sour - Rest House			
Naqoura	Х		Х

Table 62 Fishermen Cooperative and Syndicate Facilities at Lebanese Coastal Fishing Ports/Landing Sites

13.0 Other Facilities

13.1 Fishermen's net store: six ports/landing sites had such facility on site or in a nearby area (Table 63).

13.2 Engine Spare Parts: only two sites had such a facility (Table 63).

13.3 Recreation/Food facility: five ports/landing sites had such facilities (Table 63).

13.4 Flat Area for Net Repair: many ports/landing sites (25) had such an area (Table 63).

13.5 Parking Area: 24 ports had a parking area. The capacity of such parking area ranged between five vehicles for Enfe-Rmeilet Landing Site to 300 vehicles at Dora Port (Table 63).

13.6 Asphalted/Paved Roads: Twenty-seven ports/landing sites had internal roads while most (34) had direct access to public road network (Table 63).

14.0 Safety

14.1 Civil Defense Post: seventeen ports/landing sites had on-site or close by civil defense posts (Table 64).

14.2 Medical Emergency: no ports/landing sites had a medical emergency facility (Table 64). Such facilities were available outside the ports. There proximity to those ports/landing sites ranged from 0.5 km for Beirut City ports to more than 15 km for Cheikh Zennad Landing Site or even outside Lebanon such as in Syria for Aarida fishermen.

15.0 Security

15.1 Fence: eight ports had a security fence while 14 ports/landing sites had a gate/entrance (Table 65).

15.2 Posts for security Forces:

- **15.2.1 Police Station:** only two ports/landing sites had a police station in there immediate vicinity (Table 65).
- **15.2.2** Army Post: there was an army post at 24 ports/landing sites (Table 65).
- **15.2.3** Army Intelligence Post: 23 ports/landing sites had an army intelligence post on site. These could be in conjunction with the army posts mentioned in 15.2.2 above (Table 65).
- **15.2.4 General Security Post:** there was a General Security post at only two ports (Table 65).

Name of Port /	Net	Engine	Recreation/	Flat area for	Parking	Asphalted/	Paved Roads
Landing site	store	spares	Food facilities	net repair	capacity	Internal	Access to Public Road Network
Aarida							X
Cheikh Zennad							
Hay el Bahr							
Aabde				Х	100	Х	Х
Tripoli - Al Mina	Х	Х		Х		Х	Х
Tripoli - Huqran				Х			
Qalamoun					50	Х	Х
Enfe -Nuhairy				Х	10	Х	Х
Enfe - Dabbaghah							
Enfe - Rmeilet					5		Х
Chekka				Х		Х	Х
Heri							
Hamat - Roca Marina		х	Х	Х	50	Х	Х
Selaata				X		X	X
Batroun				X	40	X	X
Kfar Aabida -Fadous					10	X	X
Barbara					40	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	X
Aamchit				Х	15	х	X
Jbail			х	X	50	X	X
Halat - Al Fidar			А	А	5	Λ	X
Halat					5		X
Aaqeibe				Х	50	х	X
Bouar				X	50	X	X
Safra				А	50	Λ	Λ
				V	20	V	v
Tabarja				X	20	X	X
Jounieh - Kaslik				X	100	X	X
Dbaiye				X	100	X	X
Jamil Gemayyel	~~			X	200	X	X
Dora	Х		Х	X	300	X	Х
Beirut - Ain el Mraisseh				Х		Х	
Beirut - Jal el Baher							
Beirut - Manarah				Х		Х	Х
Beirut - Dalieh				Х	50	Х	
Jnah - Cote D'Azour							
Ouzaii			Х	Х		Х	Х
Naame							Х
Jiye							Х
Saida	Х			Х		Х	Х
Zeereh	Х			Х	100	Х	Х
Ain Qantara	Х						Х
Mounis				Х	30	Х	Х
Sour	Х		Х	Х	30		Х
Sour - Rest House						Х	Х
Naqoura					40	Х	Х

Table 63 Other Facilities available at Lebanese Coastal Fishing Ports/Landing Sites

Name of PortPostProximity to PortName of CenterAaridaIn SyriaIn SyriaCheikh Zennad1Tal Hayat Medical CenterHay el BahrX1Tal Hayat Medical CenterAabde3Nahr Bard Palestinian Refugees CampTripoli - Al MinaXX4Islamic Hospital3QalamounX10Enfe - NuhairyX10Enfe - NuhairyX10Haykaliyeh Hospital15Enfe - NuhairyX10Haykaliyeh Hospital15Enfe - NuhairyX10Haykaliyeh Hospital (Tripoli)Enfe - NuhairyX10Haykaliyeh Hospital (Tripoli)Enfe - NameletX10ChekkaX5Batroun Hospital15Haykaliyeh Hospital (Tripoli)SelaataXXX10BarbaraX10AamchitXXX10Haykaliyeh HospitalBarbaraX10AaqeibeX3Sajidat Al-Maounat Hospital (Jbail)JbailXXAaqeibeXX4Jamil GemayyelXDoraXXX3Beirut - An el MarissehXSeitatXSaint Louis HospitalJbailXJaaraXJaaraXJaaraX <th></th> <th>rorts/Lanu</th> <th>8</th> <th>Medical E</th> <th>mergency Center</th>		rorts/Lanu	8	Medical E	mergency Center
AaridaIn SyriaCheikh Zennad17Nahr Bard Palestinian Refugees CampHay el BahrX1Tal Hayat Medical CenterAabde3Nahr Bard Palestinian Refugees CampTripoli - Al MinaXX4Islamic HospitalIslamic HospitalQalanounX10AabdeX10QalanounX10Enfe - NuhairyX10Enfe - NuhairyX10Haykaliych Hospital/ Batroun HospitalEnfe - NuhairyX10Haykaliych Hospital (Tripoli)Enfe - RmeiletX10Heri15Haykaliych Hospital (Tripoli)ChekkaX5Batroun HospitalBatrounXXSelaataX3Batroun HospitalBatrounXXSavidat Al-Maounat Hospital (Diail)AamchitXXX10Savidat Al-Maounat Hospital (Diail)JaatiXXSavidat Al-Maounat Hospital (Jbail)JaatiXXAageibeXXAageibeXXSavidat Al-Maounat Hospital (Jbail)JaatiXX3Savidat Al-Maounat Hospital (Jbail)JaatiXX3Savidat Al-Maounat Hospital (Jbail)JaatiXX3Savidat Al-Maounat Hospital (Jbail)JaatiXX3JaitX </th <th>Name of Port / Landing site</th> <th>Civil Defense Post</th> <th>Availability</th> <th>Proximity to Port</th> <th></th>	Name of Port / Landing site	Civil Defense Post	Availability	Proximity to Port	
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Hamat - Roca MarinaX15Haykaliyeh Hospital (Tripoli)SelaataXX3Batroun HospitalBatrounXX1Batroun HospitalKfar Aabida - FadousXX5Batroun HospitalBarbaraX10Sayidat Al-Maounat Hospital (Jbail)AamchitXX3Sayidat Al-Maounat Hospital (Jbail)JbailXX2Saint Martin Hospital (Jbail)Halat - Al Fidar	Chekka		Х	5	Batroun Hospital
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BatrounXXIBatroun HospitalKfar Aabida - FadousX5Batroun HospitalBarbaraX10Sayidat Al-Maounat Hospital (Jbail)AamchitXX3Sayidat Al-Maounat Hospital (Jbail)JbailXX2Saint Martin Hospital (Jbail)Halat - Al Fidar	Hamat - Roca Marina		Х	15	Haykaliyeh Hospital (Tripoli)
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BarbaraX10Sayidat Al-Maounat Hospital (Jbail)AamchitXX3Sayidat Al-Maounat Hospital (Jbail)JbailXX2Saint Martin Hospital (Jbail)Halat - Al FidarHalatAaqeibeXX6Sayidat Al-Maounat Hospital (Jbail)BouarXX6Sayidat Al-Maounat Hospital -JbailBouarXX10Saiyidet Lubnan Hospital (Jounieh)SafraTabarjaXX3Saint Louis Hospital (Jounieh)Jounich - KaslikXX0.5Saiyidet Lubnan Hospital (Jounieh)DoraXX3Mar Youssef HospitalBeirut - Ain el MraissehX0.5American University HospitalBeirut - Jal el BaherX2American University HospitalBeirut - DalichX1Al-Makased HospitalJnah - Cote D'AzourX5Rasoul Al-Azarm HospitalOuzaiiXX4Rasoul Al-Azarm HospitalNaame5Dispensary in townJiyeXX2Jiye Hospital	Batroun	Х	Х	1	Batroun Hospital
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Safra TabarjaXXX3Jounieh - KaslikXXX0.5Saint Louis Hospital (Jounieh)Jounieh - KaslikXX0.5Saiyidet Lubnan Hospital (Jounieh)DbaiyeX5Abou Jawdeh - Jal El-DibJamil GemayyelX3Mar Youssef HospitalDoraXX0.5American University HospitalBeirut - Ain el MraissehX0.5American University HospitalBeirut - Jal el BaherX2American University HospitalBeirut - DaliehX1Al-Makased HospitalJnah - Cote D'AzourX5Rasoul Al-Aazam HospitalOuzaiiXX4Rasoul Al-Aazam HospitalNaame5Dispensary in townJiye Hospital	-				-
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Jamil GemayyelXXADoraXX3Mar Youssef HospitalBeirut - Ain el MraissehX0.5American University HospitalBeirut - Jal el BaherX2American University HospitalBeirut - ManarahX3American University HospitalBeirut - DaliehX1Al-Makased HospitalJnah - Cote D'AzourX5Rasoul Al-Aazam HospitalOuzaiiXX4Rasoul Al-Aazam HospitalNaame5Dispensary in townJiyeXX2Jiye Hospital					
DoraXX3Mar Youssef HospitalBeirut - Ain el MraissehX0.5American University HospitalBeirut - Jal el BaherX2American University HospitalBeirut - ManarahX3American University HospitalBeirut - DaliehX1Al-Makased HospitalJnah - Cote D'AzourX5Rasoul Al-Aazam HospitalOuzaiiXX4Rasoul Al-Aazam HospitalNaame5Dispensary in townJiyeXX2	-			C C	
Beirut - Ain el MraissehX0.5American University HospitalBeirut - Jal el BaherX2American University HospitalBeirut - ManarahX3American University HospitalBeirut - DaliehX1Al-Makased HospitalJnah - Cote D'AzourX5Rasoul Al-Aazam HospitalOuzaiiX4Rasoul Al-Aazam HospitalNaame5Dispensary in townJiyeXX2		x	x	3	Mar Youssef Hospital
Beirut - Jal el BaherX2American University HospitalBeirut - ManarahX3American University HospitalBeirut - DaliehX1Al-Makased HospitalJnah - Cote D'AzourX5Rasoul Al-Aazam HospitalOuzaiiXX4Rasoul Al-Aazam HospitalNaame5Dispensary in townJiyeXX2					_
Beirut - ManarahX3American University HospitalBeirut - DaliehX1Al-Makased HospitalJnah - Cote D'AzourX5Rasoul Al-Aazam HospitalOuzaiiXX4Rasoul Al-Aazam HospitalNaame5Dispensary in townJiyeXX2					
Beirut - DaliehX1Al-Makased HospitalJnah - Cote D'AzourX5Rasoul Al-Aazam HospitalOuzaiiXX4Rasoul Al-Aazam HospitalNaame5Dispensary in townJiyeXX2Jiye Hospital					
Jnah - Cote D'Azour OuzaiiXX5Rasoul Al-Aazam Hospital Rasoul Al-Aazam Hospital Al-Zahra' Hospital 				-	
OuzaiiXX4Rasoul Al-Aazam Hospital Al-Zahra' HospitalNaame5Dispensary in townJiyeXX2Jiye Hospital					~
NaameAl-Zahra' HospitalJiyeXX2Jiye HospitalJiye Hospital		х			
Jiye X X 2 Jiye Hospital					
	Naame			5	Dispensary in town
	Jiye	Х	Х	2	* -
Saida X X I.5 Hamoud Hospital/ Abou Dahr Hospital	Saida	Х	Х	1.5	Hamoud Hospital/ Abou Dahr Hospital
Zeereh X 4 Aladdin Hospital/ Kharoubi Hospital					· · ·
Ain Qantara X X 2 Aladdin Hospital/ Kharoubi Hospital		Х			
Mounis X 4 Aladdin Hospital/ Kharoubi Hospital					
Sour X X 3 Governmental Hospital		х			
Sour - Rest HouseX3Najem Hospital					-
NagouraX0.75UNIFIL Medical Center					

Table 64 Civil Defense and Medical Emergency Centers available to Lebanese Coastal Fishing Ports/Landing Sites

Name of Port /	Fencing		Post for Security Forces			
Landing site	Fence	Gate/Entrance	Police	Army	Army Intelligence	General Security
Aarida			X	X	X	
Cheikh Zennad				Х		
Hay el Bahr				Х		
Aabde		Х		Х	Х	
Tripoli - Al Mina			Х	Х		
Tripoli - Huqran				Х		
Qalamoun				Х		
Enfe -Nuhairy				Х	Х	
Enfe - Dabbaghah						
Enfe - Rmeilet						
Chekka	Х	Х		Х	Х	
Heri						
Hamat - Roca Marina	Х	Х				
Selaata	Х	Х		Х	Х	
Batroun				Х		
Kfar Aabida -Fadous				Х		
Barbara				Х		
Aamchit					Х	
Jbail				Х	Х	
Halat - Al Fidar						
Halat						
Aaqeibe		Х		Х	Х	
Bouar					Х	
Safra						
Tabarja		Х		Х	Х	
Jounieh - Kaslik	Х	Х		Х	Х	
Dbaiye					Х	
Jamil Gemayyel	Х	Х		Х	Х	
Dora		Х		Х	Х	
Beirut - Ain el Mraisseh		Х				
Beirut - Jal el Baher						
Beirut - Manarah	Х	Х		Х	Х	
Beirut - Dalieh					Х	
Jnah - Cote D'Azour						
Ouzaii	Х	Х		Х	Х	
Naame						
Jiye						
Saida		Х		Х	Х	Х
Zeereh				X	X	
Ain Qantara					X	
Mounis					X	
Sour					X	Х
Sour - Rest House	X	Х			~~	
Naqoura				Х	Х	
1 uquuu	1		1	11	1	

Table 65 Security facilities available at Lebanese Coastal Fishing Ports/Landing Sites

Problems encountered

- Most recorders were not familiar with fisheries. The three days training was not enough. Many mistakes happened that required lots of time to correct.
- Many recorders had no cellphones, thus if they faced a problem, at a port, they could not get immediate assistance.
- Some recorders/field supervisors were not well motivated; thus filling/checking the questionnaires was not thorough, which eventually required lots of time to contact the vessel owners to do the necessary amendments.
- Some recorders did not promptly spray the surveyed vessels with the Census logo, because it was cumbersome and will dirty there hands, thus they used to do that at the end of the day, after few days, or forget all about it. This could be the reason why several boats were not stamped. Moreover, several vessel owners refused to spray there boats since that was not compulsory.
- For some recorders it was only a quick job or a race for extra income that made them attempt to fill as many questionnaires as possible. Yet, the number of double entries was not high and it did not exceed 50 questionnaires; however, the quality of some filled questionnaire was compromised.
- Despite the clear instructions, several recorders seem to have told fishermen that FAO is conducting a census (probably for eventual distribution of grants!). This explains why many came forward to fill the questionnaires; even they came in person or called the DFW HQ, to the extent that several (about 20) knowingly filled two questionnaires through different recorders.
- Although staff had proper credentials, yet the security forces did not always allow them to carry on there job until they obtained clearances from there superiors. No major problems were recorded.
- The handwriting was not very legible in many instances resulting in undue delays.
- No standard way for writing several items e.g. names of people, engine manufacturers, town names, etc. this resulted in lengthy re-editing of those items.
- Inability to finalize the software delayed data entry, which in turn delayed data merger until after the summer of 2005.
- The local project staff was not very computer (Microsoft Excel, Word packages) competent, which resulted in lengthy delays and mistakes.
- Due to the nature of the software, data extraction was not straightforward and required considerable time to do so particularly the remarks section.

Conclusions & Recommendations

The surveys undertaken were conducted in a professional manner. Results confirmed the nature of the fleet that is artisanal and barely capable of coastal fishing from ports, which lack many of the basic requirements for safe navigation and harbor.

Part of the team that did the job, should become the nucleus for further fisheries statistics. The endeavor should be looked at as a dynamic process rather than an isolated incident that was conducted because the funds were there. Thus, it is recommended that an "official" fisheries statistical entity be established to carry on the work in the future. Furthermore, the system developed and the Vessel Register should also be a dynamic process and be continuously updated; either as part of annual routine check i.e. when fishermen apply for fishing license or through quality checks.
The system should be built on to eventually, after all regional offices become computerized, issue fishing licenses and update the Register.

The data collected could be launching pad for further work namely through conducting socioeconomic surveys to form a full picture of this sector. All stakeholders e.g. scientific community, concerned ministries, NGOs, etc. should be welcomed to use and further analyze the data to help in formulating strategies on developing and improving the fisheries sector in Lebanon.

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Appendix 1 Fisheries Administrative Structure within Ministry of Agriculture

Appendix 2 Fishing Vessels Questionnaire



اسم المركب

THE LEBANESE REPUBLIC







استمارة الاحصاء

The Census Questionnaire

وزارة الزراعة مديرية التنمية الريفية والثروات الطبيعية مصلحة الاحراج والثروة الطبيعية دائرة الصيد المائي والبري

MINISTRY OF AGRICULTURE Directorate of rural Development & Natural Resources Division of Forests & Natural Resource Department of Fisheries & Wild Life

Marine Fishing Vessels Census 2004

مسح سفن الصيد البحري

Ree	corder name:		Code:	
	اسم الباحث		الرمز	
	Date:/	/(dd/MM/y	/ууу)	
	الشهر اليوم التاريخ	السنة		
Recording Serial:		Recording place:		
رقم التسجيل المتسلسل		مكان المقابلة		
Supervisor:		Approval:	Date:///////	
المراقب		الموافقة	التاريخ	
	Re-Intervie	إعادة المقابلة wing		
By:	Date://	Approval:	Date://	
بواسطة	التاريخ	الموافقة	التاريخ	

مواصفات زورق الصيد Fishing vessel characteristics

	5		TABLE جدول
1.1	رقم التسجيل Registration (Matriculation) No		
1.2	Registration (Matriculation) port مرفأ الارتباط	Beirut بیروت Chekka Jbail Jounieh جونیة Sour Sour Tripoli طرابلس طرابلس A	1.2
<u>1.3</u>	<u>العلم</u>	Lebanon Other: غيره لبنان	1.3
1.4	Deed registration date تاريخ تسجيل سند التمليك البحري	(dd/mm/yyyy) / / / / / / / / / / / /	
<u>1.5</u>	اسم الزورق Vessel name		
<u>1.6</u>	فنة الزورق <u>Vessel type</u>	Purse seinersزوارق التحويقSeiners Otherزوارق السينية الأخرىmain liticedTrawlersiticedcielticedGill nettercielticediticelicedtrap Settersiticelicedtrap SettersLong linerscielticedLong linerscielticedLiners othercielticedItimutionMultipurposeOther fishing vesselscielticedoarscielticedunknownunknown	1.6
<u>1.7</u>	Operational statusالوضع العملانى(One only)(واحد فقط)	غيره Operational يعمل Operational 🗌 مجهول Unknown لايعمل Non operational	1.7
1.7.1	Non activity reason سبب عدم العمل	العال المعرك العال المعرك Damage اغرار Damage مرفوع موقع موقع Document out of order معيد صالحة Document out of order معجوز Sequestered (e.g. by foreign country) Strike إضراب المراب Abandoned (but not laid up) موقتا Abandoned (but not laid up) موقتا عطلة/عيد Temporary holiday inactivity عطلة/عيد معجوز Description المعنور (لكن غير مرفوع) Other cause إصلاح معدات الصيد Other cause معهجوز سالمال الميد المولاح معدات الصيد	1.7.1
<u>1.8</u>	مرفأ الأساس/الانطلاق/القاعدة Home port		1.8
<u>1.9</u>	رقم رخصة الملاحة		
1.9.1	Navigation license port مرفأ رخصة الملاحة		1.2
1.10	ملاحظات: REMARKS:		

2. Fishing authorization ترخيص الصيد

	ning authoriz	••••••				TABLE جدول
<u>2.1.1</u>	<u>Marine Fishing I</u> عرية	<u>icense No.</u> رقم رخصة صيد الأسماك الب				
2.1.2		icense date of issue تاریخ إصدار رخصة صید الا		/ / الشهر اليوم	(dd/mm/yyyy) السنة	
2.1.3	Valid for the year	صالحة لسنة				
<u>2.2.1</u>	Fishing gear	شباك الصيد المرخصة	Rank المرتبة	Fishing Gear	شباك الصيد المرخصة	
				Beach seine	جاروفة بر	
				Tarmmel	مبطن	
				Purse seine	شباك تحويق	
				Gillnet	بشلولة	

			Trap	اقفاص
			Set longline	شرك
			Drift longline	جرجارة
			Handline	بولص
			Speargun	بارودة
			Other:	Code:
			غیرہ	الرمز
			Other:	Code:
			غیرہ	الرمز
			Other:	Code:
			غیرہ	الرمز
			Other:	Code:
			غير ه	 الرمز
2.3	REMARKS:	ملاحظات:		

3. Structural characteristics

الخصائص الإنشائية / البنيوية

			TABLE جدول
<u>3.1</u>	Overall length (m.) (م) الطول الكلى (م)		
3.2	العرض (م) (Width (m.)		
3.3	Depth (<i>creux</i>) (m) (م) (م) العمق (القعر) (م)		
3.4.1	اسم حوض بناء السفن Shipyard		
3.4.2	اسم الصانع Builder's name		
3.4.3	Construction place of the vessel مكان إنشاء الزورق		
3.5	Construction country of the vessel دولة إنشاء الزورق	Lebanon Other: غیرہ لبنان	1.3
3.6	Construction year of the vessel سنة إنشاء الزورق		
3.7	مواد صنع بدن الزورق Hull material	 Wood خشب كمثاب المناف Marine plywood معاكس Marine plywood السمنت Aluminum معاكس Plastic المنيوم Iron/Steel خيره Other مجهول Other Fiberglass فايبرغلاس Wood/fiber خشب/حديد Mood/fiber 	٣,٧
3.8	عام الدخول إلى الصيد Year of entry in fishery		
<u>3.9</u>	<u>GRT (Gross Registered Tonnage)</u> الوزن الإجمالي المسجل		
3.9.1	الوزن الصافي المسجل (NRT (Net Registered)		
3.10	الوزن الإجمالي (GT (Gross Tonnage)		
<u>3.11</u>	<u>ظهر الزورق</u> <u>Decked</u>	کلا No کلا No	
3.12	ملاحظات: REMARKS:		

4. Engine المحركات

Engine (1)

المحرك الأول (١)

				جدول
4.1	Model	الطراز		
4.2	Manufacturer	اسم الصانع		
<u>4.3</u>	Inboard/Outboard	داخلي / معلق (شکل)	خارجي (شكل) Outboard 🗌 داخلي Inboard	
<u>4.4</u>	Power	القوة	حصان HP	
4.5	Energy Source	مصدر الطاقة (الوقود)	 Diesel دیزل Petrol/gasoline Petrol/gasoline mixed with oil مزیج بنزین وزیت Electricity (generated on board) کهرباء (مولدة على الزورق) Petrolueum بترول Unknown غیره other 	4.4

TABLE

4.6	Construction country of the engine دولة إنشاء المحرك	لليابان UK بريطانيا UK لليابان UK للمانيا Germany للولايات المتحدة الأميركية USA للمانيا Other غيره :	1.3
4.7	Construction year of the engine سنة إنشاء المحرك		
4.8	عدد الرفاصات Number of Helices		
4.9	عدد السلندر ات Number of Cylinders		
4.10	عدد الدورات RPM		
4.7	ملاحظات: REMARKS:		

TABLE

Engine (2) المحرك الثاني (٢)

			جدول
4.1	الطراز Model		
4.2	اسم الصانع Manufacturer		
<u>4.3</u>	Inboard/Outboard داخلي/ بعيدا عن وسط المركب	خارجي (شکل) Outboard 🗌 داخلي Inboard 🗋	
<u>4.4</u>	القوة Power	حصان HP	
4.5	مصدر الطاقة (الوقود) Energy Source	بنزین Diesel دیزل Petrol/gasoline یزین Petrol/gasoline یزین Petrol/gasoline مزیج بنزین وزیت Petrol/gasoline mixed with oil م دریج بنزین وزیت Electricity (generated on board) کھرباء (مولدة علی الزورق) Petrolueum بترول Petrolueum غیرہ Unknown	4.4
4.6	Construction country of the engine دولة إنشاء المحرك	Japan اليابان UK بريطانيا USA المانيا USA المانيا Other غيره	1.3
4.7	Construction year of the engine سنة إنشاء المحرك		
4.8	عدد الرفاصات Number of Helices		
4.9	عدد السلندر ات Number of Cylinders		
4.10	عدد الدورات RPM		
4.11	ملاحظات: REMARKS:		

الأجهزة الالكترونية 5. Electronic equipment

أجهزة الملاحة 5.1 Navigation equipment

5.1 N	avigation equipment	بهزة الملاحة	أج	TABLE جدول
5.1.1.1	Navigation equipment (1)	جهاز الملاحة (١)	No navigation equipmentLoran CLoran CLoran ALoran ADeccaDomegaDeccaLoran ALoran ACaseDeccaLoran ALoran ADeccaLoran ALoran AAutomatic pilotLoran CLoran CLoran CLoran ALoran A	5.1.1.1
5.1.1.2	Year of purchase (1)	عام الشراء (١)		
5.1.2.1	Navigation equipment (2)	جهاز الملاحة (٢)	Name اسم الجهاز	5.1.1.1
5.1.2.2	Year of purchase (2)	عام الشراء (٢)		
5.1.3.1	Navigation equipment (3)	جهاز الملاحة (٣)	Name اسم الجهاز	5.1.1.1

5.1.3.2	Year of purchase (3)	عام الشراء (٣)		
5.1.4.1	Navigation equipment (4)	جهاز الملاحة (٤)	Name اسم الجهاز	5.1.1.1
5.1.4.2	Year of purchase (4)	عام الشراء (٤)		
5.1.5.1	Other equipment	اجهزة اخرى	Name اسم الجهاز	
5.1.5.2	Year of purchase	عام الشراء		

أجهزة الاتصال Communication equipment

TABLE

					جدول
5.2.1.1	Communication apparatus	جهاز الاتصال (1)	 Radio VHF Radio telephone Cellular phone Fax Satellite radio Telegraph Other Unknown 	جهاز لاسلكي تلفون لاسلكي تلفون خليوي فاكس جهاز لاسلكي بواسطة الأقمار الاصطناعية تلغراف غيره مجهول	5.2.1.1
5.2.1.2	Year of purchase (1)	عام الشراء			
5.2.2.1	Communication apparatus	جهاز الاتصال (2)			5.2.1.1
5.2.2.2	Year of purchase (2)	عام الشراء			
5.2.3.1	Communication apparatus	جهاز الاتصال (3)			5.2.1.1
5.2.3.2	Year of purchase (3)	عام الشراء			
5.2.4.1	Other equipment	أجهزة أخرى			
5.2.4.2	Year of purchase	عام الشراء			
5.2.5	Radio call sign	رمز النداء اللاسلكي			

5.3 Fish Finder

كاشف الأسماك

5.3 F	ish Finder	كاشف الأسماك		TABLE جدول
5.3.1.1	Finder apparatus (1)	جهاز التحديد (۱)	Echo Sounder العدى (ايكو ساوندر) نيت سوند مرجع الصدى (ايكو ساوندر) Sonar العندى Other فيره Unknown	5.3.1.1
5.3.1.2	Year of purchase (1)	عام الشراء (١)		
5.3.2.1	Finder apparatus (2)	جهاز التحديد (٢)		5.3.1.1
5.3.2.2	Year of purchase (2)	عام الشراء (٢)		
5.3.3.1	Finder apparatus (3)	جهاز التحديد (٣)		5.3.1.1
5.3.3.2	Year of purchase (3)	عام الشراء (٣)		
5.3.4.1	Other finder	أجهزة تحديد أخرى		
5.3.4.2	Year of purchase	عام الشراء		
5.4	REMARKS	ملاحظات:		

معدات ظهر المركب 6. Deck machinery

			TABLE جدول
		يدو ي Manual	
		أوتوماتيكي Automatic	
		أوتوماتيكي – ميكانيكي في Automatic -Mechanical	
		أوتوماتيكي - هيدروليكي Automatic -Hydraulic	
		أوتوماتيكي-كهربائي Automatic -Electric	
	Method of activating the fishing gear	أوتوماتيكي- أحزمة Automatic -Belts	
6.1	include of activating the fishing gear	نصف أوتوماتيكي Semi-Automatic	- 61
<u></u>	طريقة تشغيل معدات الصيد	نصف أوتوماتيكي – ميكانيكي Semiautomatic - Mechanical	
		نصف أوتوماتيكي - هيدروليكي Semiautomatic - Hydraulic 🗌	
		نصف أوتوماتيكي - كهربائي Semiautomatic - Electric	
		نصف أوتوماتيكي - أحزمة Semiautomatic -Belts	_
		غير موجود Not Present غير موجود	_
		غيره Other غيره	
6.2.1	عدد ونشات الجرجارة/الشرك Number of line winch	مجهول Unknown	
0.2.1		أحزمة Belts غير موجود Not present	
	Line winch operated by	نصرها Dens عير موجود Dens غيرها الله المحالية Mechanical	
6.2.2		☐ Hydraulic هيدروليكية Unknown	6.2
	ونش الجرجار ة/الشرك يشغل بواسطة	Electric كهربائية	
6.3.1	عدد ونشات الشباك Number of net winch		
		أحزمة Belts فير موجود Not present	
6.3.2	Net winch operated by	غيرها Other 🗌 ميكانيكية Mechanical	6.2
0.3.2	ونش الشباك يشغل بو اسطة	مجھول Unknown 📃 مجھول Unknown	0.2
		کھربائیة Electric	
6.4.1	عدد ونشات الشباك Number of trammel winch		
	المبطنة	أحزمة Belts غير موجود Not present	
	Trammel winch operated by	أحزمة Belts فير موجود Not present فيرها Mechanical فيرها Mechanical	
6.4.2		للبين المعادي الم	6.2
	ونش الشباك المبطنة يشغل بو اسطة	Electric	
6.5.1	عدد ونشات الشنشيلا Number of power block		
	Power block operated by	أحزمة Belts فير موجود Not present	
6.5.2	Power block operated by	غيرها Other 🗌 ميكانيكية Mechanical	6.2
0.3.2	ونش الشنشيلا يشغل بواسطة	مجھول Unknown 🗌 هيدروليکية Hydraulic	0.2
		کھربائیة Electric	
6.6.1	غیرہ (۱) : غیرہ (۱)		
6.6.2	Number العدد		
	Other (1): operated by	أحزمة Belts غير موجود Not present	
6.6.3		غيرها Other □ ميكانيكية Mechanical □ Other □ □ Other □ □ Other □ □ Other □ □ Other	6.2
	غیر ہ (۱) یشغل بو اسطة	☐ Hydraulic هيدروليكية Unknown ☐ Electric	
6.7.1	Other (2) (۲) غيره (۲		
6.7.2	العدد (۲) Number		
		أحزمة Belts غير موجود Not present	
672	Other (2): operated by	غيرها Other ميكانيكية Mechanical	(2)
6.7.3	غیر ہ (۲) یشغل بو اسطة	🔲 Hydraulic هيدروليکية Unknown 🗌	6.2
		کھریائیة Electric	
6.8	ملاحظات REMARKS		

الملكية 7. Ownership

					TABLE
7.1.1	Company type	نوع الشركة	National Private 🗌	Others غیرہم	جدول 7.1.1
7.1.2	Company name	اسم الشركة		,	
7.1.3	Company establishment Year	عام إنشاء الشركة			
7.1.4	Company address	عنوان الشركة			
7.1.5	Company postal code	الرمز البريدي للشركة			
7.1.6	Company town	مدينة الشركة			
7.1.7	Company country		لبنان Lebanon 🗌	: غيرہ Other 📃	1.3
7.2.1	Owner's Name	اسم المالك/المالكون			
7.2.1.1	Total number of owners	عدد المالكين			
7.2.2	Operated by	مشغل المركب	المالك Owner غيره Other	المشغل Operator 🗌 مجھول Unknown	7.2.2
7.2.2.1	Skipper 's Name	اسم رئيس المركب (الريس)			
7.2.2.1.1	Fisherman passport number	رقم تذكرة صياد بحري			
7.2.3	Owner's year of birth	عام ميلاد المالك/الريس			
7.2.4	Owner's address	عنوان المالك/الريس			
7.2.5	Owner's address postal code	الرمز البريدي للمالك/الريس			
7.2.6	Owner's town of residence	بلدة سكن المالك/الريس			
7.2.7	Owner's country of residence	دولة سكن المالك/الريس	لبنان Lebanon 🗌	: غیرہ Other 🗌	1.3
7.2.8	Owner's Telephone	رقم تلفون المالك/الريس			
7.2.9	ں Owner's Mobile phone	رقم هاتف الخليوي للمالك/الريه			
7.3	REMARKS	ملاحظات			

8. Crew البحارة

				TABLE جدول
8.1	Minimum number	العدد الأدنى		
8.2	Maximum number	العدد الأكبر		
8.3	Usual number of crew (all)	العدد المعتاد للبحارة (العدد الكلي)		
8.4.1	Usual number of crew non-Lebanese	العدد المعتاد للبحارة الغير لبنانين		
8.4.2	Nationality	الجنسية (جنسيات)		
8.4	REMARKS	ملاحظات	- -	

مرافئ العمل Ports of operation 9.

	_				TABLE جدول
9.1.1	Port period 1	مرفأ الفترة ١			1.8
9.1.2	Period 1	الفترة ١	/ (mm/mm)	(شىھر /شىھر)	
9.2.1	Port period 2	مرفأ الفترة ٢			1.8
9.2.2	Period 2	فترة ۲	/ (mm/mm)	(شىھر /شىھر)	

ماك المستعملة	عدة صيد الأسه				Me	o nth	lS			هر	الشري					منطقة g Zone		عدد الطلعات في الشهر	الأسماك المستهدفة
Gears used		ات)	اء وضع دائرة حول الفترات) (Encircle periods)						<ع امیال mile	3-6 امیال mile	6-12 امیال mile	>12 امیال mile	Number of sorties per month	Targeted species					
Beach seine	جاروفة بر	1	2	3	4	5	6	7	8	9	10	11	12						
Trammel	مبطن	1	2	3	4	5	6	7	8	9	10	11	12						
Purse seine	شباك تحويق	1	2	3	4	5	6	7	8	9	10	11	12						
Gillnet	بشلولة	1	2	3	4	5	6	7	8	9	10	11	12						
Trap	اقفاص	1	2	3	4	5	6	7	8	9	10	11	12						
Set Logline	شرك	1	2	3	4	5	6	7	8	9	10	11	12						
Drifting Longli	جرجارة ne	1	2	3	4	5	6	7	8	9	10	11	12						
Handline	بولص	1	2	3	4	5	6	7	8	9	10	11	12						
Speargun	بارودة	1	2	3	4	5	6	7	8	9	10	11	12						
Other	غير ها	1	2	3	4	5	6	7	8	9	10	11	12						
Other	غير ها	1	2	3	4	5	6	7	8	9	10	11	12						
Other	غيرها	1	2	3	4	5	6	7	8	9	10	11	12						

10. Fishing operations عمليات الصيد

Targeted Species

A. Small gregarious pelagic (e.g. anchovies, sardines, mackerel)

B. Large pelagic (e.g. tunas, amberjacks)

C. Demersal inshore species, mainly of hard sub-stratum (e.g., sea-bream)

D. Demersal offshore species, mainly of soft sub-stratum (e.g. codfish)

E. Sessile organisms (e.g., clams, mussels, warty venus)

F. Special fish, monospecies and similar (e.g., lobsters, red porgy)

G. Coryphaena hippurus (Lampuki)

H. Octopus

I. Other

J. Unknown

الأسماك المستهدفة

A الأسماك البيلاجية (السطحية) الصغيرة التي تعيش في مجموعات (مثل الانشوا، سردين، ومكاريل، بوريات)

B الأسماك البيلاجية (السطحية) الكبيرة (مثل التونا، البلاميدا،غزال، انتياس، كلب بحر، باراكودا)

C الأسماك القاعية القريبة من الشاطئ، عادة في الطبقات القاسية (مثل الفريديات، سلطانيات، مبرد)

D الأسماك القاعية البعيدة من الشاطئ، عادة في الطبقات الطرية (مثل سمكة القد، لقريات، بصاص، بحلق)

E المخلوقات الثابتة (مثل الصدف، بلح البحر)

F اسماك خاصة، الأصناف المنفردة وغيرها (مثل الكركند)

G لمبوكا

H اخطبوط

I غیرہا

J مجھول

11. Fish processing and preserving Equipment معدات حفظ وتصنيع الأسماك

11.1	الحفظ Preservation		TABLE جدول
11.1.1.1	Hold for fresh fish مكان حمل الأسماك الطازجة	کلا No ا	
11.1.1.2	Fresh fish hold capacity (m ³) سعة مكان حمل الأسماك (م٣)		
11.1.2.1	براد Cold storage	کلا No کند No کند No	
11.1.2.2	Cold storage capacity (m ³) (۳م) سعة البراد (۳		
11.1.2.3	Cold storage temperature (°C) رجة حرارة البراد (درجة مئوية)	2	
11.1.3.1	Refrigerated seawater Production صنع لتبريد ماء البحر	کلا No ا	s
11.1.4.1	Hold for live fish مكان لحمل الأسماك الحية	کلا No کند No	
11.1.4.2	Live fish hold capacity (m ³) عة مكان حمل الأسماك الحية (م٣)	u la	
11.1.5.1	التابع التلج Ice plant	کلا No کند No کند No	
11.1.5.2	Ice plant capacity (kg/h) رة ماكينة صنع الناج (كلغ/ساعة)	ě	
11.1.5.3	أسكل الثلج Ice Format	مبروش Scales مکعبات Cubes ألواح Bars الواح Cubes المعبات Scales المعبات Grinded معبون Other مطحون مطحون	11.1.5.3
11.1.6.1	معدات أخرى Other equipment		
11.1.6.2	سعة المعدات الأخرى Capacity other		

11.2 Processing

التصنيع

								جدول
11.2.1.1	للاجة Freezer		Yes	نعم	_	No	کلا	
11.2.1.2	Freezer capacity (m ³) (۳م) سعة الثلاجة (م۳							
11.2.2.1	إنتاج دقيق السمك Fishmeal production		Yes	نعم	_	No	کلا	
11.2.2.2	Fishmeal production capacity (m³) درة إنتاج دقيق السمك (م٣)	i						
11.2.3.1	إنتاج زيت السمك Fish oil production		Yes	نعم		No	کلا	
11.2.3.2	Fish oil production capacity (m ³) درة اِنتَاج زيت السمك (م۳)	i						
11.2.4.1	ماكينة عمل فيليه السمك Filleting machine		Yes	نعم	_	No	کلا	
11.2.4.2	Number of filleting machines عدد ماکینات عمل فیلیه السمك							
11.2.5	غير ها Other		Yes	نعم		No	کلا	
11.3	REMARKS ملاحظات							

TABLE

معدات أخرى 12. Other equipment

			TABLE جدول
12.1	معدات رفع Lift equipment	Yes (Quantity:) □ No کلا لامیة)	
12.2	A rish pumps مضخات للأسماك	☐ Yes (Quantity:) ☐ No کلا (الکمیة) نعم	
12.3.1	عدد أضواء (لوكس) Number of lights		
12.3.2	قوة كل ضوء (كيلووات) (Power of each light (KW		
12.4	مولد کھرباء Generator	کلا No کلا No کلا	
12.4.1	قوة مولد الكهرباء (كيلووات) (Generator power (kW		
12.4	REMARKS ملاحظات		

13. Safety equipment معدات السلامة

			TABLE جدول
13.1	Number of belts	عدد الأحزمة	
13.2	Number of lifeboats	عدد قوارب النجاة	
13.3	Number of flares	عدد المشاعل	
13.4	Number of fire equipment	عدد معدات الإطفاء	
13.5	Number of life vests	عدد جاكيتات النجاة	
13.6	Number of Tires/lifebelts/buoys	عدد دو اليب/أحزمة نجاة/طو افات	
13.7	Other safety equipment	معدات السلامة الأخرى	
13.8	REMARKS	ملاحظات	

ة. Membership

Ļ	غىو	2	1

T 40 101	embersmp		_,				
	_		نعم Yes	کلا No	Name	الاسم	
14.1	Cooperative	تعاونية					
14.2	Syndicate	نقابة					

15. General Remarks ملاحظات عامة

1	
1	
1	

Appendix 3 References for the Vessel Register

MedStat -LebanonStat

Marine Fishing Vessels Census 2004

إحصاء زوارق الصيد البحري ٢٠٠٤

References المراجع

(The Codification System) (نظام التصنيف)

> Version 2004.0 إصدار ۲۰۰٤,۱

وزارة الزراعة مديرية التنمية الريفية والثروات الطبيعية مصلحة الاحراج والثروة الطبيعية دائرة الصيد المائي والبري

MINISTRY OF AGRICULTURE

Directorate of rural Development &Natural Resources Division of Forests &Natural Resources Department of Fisheries &Wild Life

References

المراجع

-Fishing Vessel Census 2004 – - إحصاء زوارق الصيد ٢٠٠٤

IMPORTANT NOTICES

If not otherwise specified, the "Code" is intended as MedStat Internal Code: it is not FAO official code.

إذا لم يذكر عكس ذلك، فان "المدونة" هي للاستعمال الداخلي لمدستات: وهي ليست مدونة الفاو الرسمية

The "Reference to" express the link to the Data Element in the Questionnaire (LebanonStat Form Census).

"المرجع" يجسد الصلة لعنصر المعطيات في الاستمارة (استمارة لبنانونستات)

References - part 1-

المراجع _ الجزء ١

Table 0.0 reference to National Recorders

جدول ٢,٠ رمز الباحثون الوطنيون

Table Description: List of the country recorders' names

مرح الجدول: لائحة بأسماء الباحثين اللبنانيين

	able Description. East of the country recorders names				
Code	الرمز	Recorder name	اسم الباحث	الوصف Description	
A01		Abdulqader Yahya	عبد القادر يحي		
A02		Adel Fadel	عادل فاضل		
A03		Akeel Khuraizat	عقیل خریز ات		
A04		Ali Awadah	علي عواضة		
A05		Bahij Mezher	بھیج مز ھر		
A06		Bassam Jummayyel	بسام جمیل		
A07		Chadi Muhanna	شادي مهنا		
A08		Chadi Saikaly	شادي سيقلي		
A09		Charbel Abi Nader	شربل ابي نادر		
A10		Charbel Nammour	شربل نمور		
A11		Charbel Sadiq	شربل صادق		
A12		Dahij Mukdad	داهج مقداد		
A13		David Antoun	ديفيد انطون		
A14		Fadi Husseini	فادي حسيني		
A15		Ghazi Kassar	غازي کسار		
A16		Hassan Haj Shehadeh	حسن حج شحادة		
A17		Husni Shalhoub	حسني شلهوب		
A18		Hussein Nassar	حسین نصار		
A19		Ibrahim Hawi	إبراهيم حاوي		
A20		Ibrahim Younes	إبراهيم يونس		
A21		Imad Dabbous	عماد دبوس		
A22		Jean Stephan	جان اسطفان		
A23		Laurent Rahmeh	لوران رحمة		
A24		Marwan Ghosh	مروان غوش		
A25		Naoum Maalouf	نعوم معلوف		
A26		Qasem Agha	قاسم آغا		
A27		Sam Durnaiqah	سام درنيقة		

یمز Code	الر Recorder name	- Description اسم الباحث	الوصف
A28	Samer Jawhar	سامر جو هر	
A29	Samir Majdalani	سمير مجدلاني	
A30	Wafic Kombargi	وفيق قمبر جي	
A31	Walid Bawwab	وليد بو اب	
A32	Wissam Wazneh	وسام وزنه	
A98	Other	غيره	
A99	Unknown	مجهول	

Table 0.1 Fishery Sectors (In MedStat Census the sector is fixed =1 by default)

جدول ١, ٠ قطاعات الصيد

شرح الجدول: لائحة بقطاعات الصيد

Table description: list of the fishery sectors.

الرمز Code	Fishery Sector Code	مدونة قطاع الصيد	الوصف Description
1	Marine fishery	الصيد البحري	
2	Inland fishery	الصيد الداخلي	
3	Aquaculture production	إنتاج مزارع تربية الأحياء المائية	
8	Other sector	قطاع آخر	

Table 0.2 Stratum /Region

جدول ٢,٢ المنطقة

Table description: list of the main subdivisions (administrative, statistical, or geographical) of the country.

			لدوله (الإداريه، الإحصائيه أو الجغر أفيه)	شرح الجدول : لائحه بافسام ا
Code	الرمز	Governorate	المحافظة	الوصف Description
1001		North	الشمال	
1002		Mount Lebanon	جبل لبنان	
1003		Beirut	بيروت	
1004		South	الجنوب	
1005		Bekaa	البقاع	
1006		Nabatiyeh	النبطية	
1099		Unknown	مجهول	

Table 0.3 Substratum /Province /District

جدول ٣,٠ القطاعات الصغرى/الإقليم/المنطقة

Table description: list of the secondary subdivisions (administrative, statistical, or geographical) of the country. شرح الجدول: لائحة بأقسام الدولة الثانوية/الصغرى (الإدارية، الإحصائية أو الجغر افية)

Code	الرمز	Province	الإقليم	لوصف Description
1.001		North	الشمال	
10.02		Mount Lebanon	جبل لبنان	
100.3		Beirut	بيروت	
100 • 4		South	الجنوب	
100.5		Bekaa	البقاع	
100.6		Nabatiyeh	النبطية	
10999		Unknown	مجهول	

Table 0.4 Decked /Undecked Vessel

جدول ٤, • مرکب بظهر / بدون ظهر شرح الجدول: مرکب بظهر / بدون ظهر

جدول
 , • نوع المرفأ/موقع إنزال
 شرح الجدول: لأئحة بأنواع المرافئ الموجودة في الدولة

Table description: decked /undecked vessel

Code .	الرمز	Decked/Undecked	مرکب بظهر / بدون ظهر	الوصف Description
1		Decked	مرکب بظهر	
2		Undecked	مرکب بدون ظهر	

Table 0.5 Type of Port /Landing Place

Table description: list of the port types present in the country.

لرمز Code	Port Type	نوع المرفأ	الوصف Description
1	Port	مرفأ	
2	Landing place	موقع إنزال	
3	Market only	سوق (فقط)	
13	Port with market	مر فأ مع سوق	
23	Landing place with market	موقع إنزال مع سوق	

Table 0.6 Fleet Segmentation

جدول ٦, ٠ تقسيم الأسطول

Table description: list of the economic segments of the fleet according to GFCM.

ماك البحر المتوسط	هيئة مصيايد إس	حسب تصندف د	لأسطول الصيد	الاقتصادية	شرح الجدول: لائحة بالأقسام

الرمز Code	القسم Segment	الوصف Description
10	معدات ثانوية بدون محرك (اقل من ٦م) Minor Gear without engine (<6 m)	
20	معدات ثانوية مع محرك (اقل من ٦ م) Minor Gear with engine (<6 m)	
21	معدات ثانوية مع محرك (اقل من ١٢-١٢ م) (Minor Gear with engine (6-12 m	
31	سفن الترول (۲-۱۲ م) Trawl (6-12 meters)	
32	سفن الترول (۲۱۲-۲۲ م) Trawl (۱2-24 meters)	
33	سفن الترول (أطول من ٢٤ م) Trawl (>24 meters)	
41	زوارق التحويق (۲-۱۲ م) Purse Seine (6-12 meters	
42	زوارق التحويق (۲۲-۲۲ م) Purse Seine (12-24 meters)	
52	زوارق الجرجارة (۲۲-۲۶ م) Long line (12-24 meters)	
62	سفن الترول للأسماك السطحية (٢٤-٢٢ م) Pelagic Trawl (12-24 meters)	
72	سفن تحويق التونا (۲۲-۲۶ م) Tuna Seine (12-24 meters)	
82	سفن الجرف (۲۲-۲۲ م) Dredge (12-24 meters)	
92	السفن المتعددة الاستعمالات (٢٤-١٢ م) Polyvalent (12-24 meters)	

Table 1.2reference to Property Notebook Port (item 1.2) and Navigation License Port (item 1.9.1)

جدول ١,٢ سيرمز إلى سند التمليك البحري (بند ١,٢) ومرفأ رخصة الملاحة البحرية (بند ١,٩,١)

Table description: list of the minor subdivisions (administrative, statistical or geographical) of the country.

شرح الجدول: لائحة بأقسام الدولة الثانوية/الصغرى (الإدارية، الإحصائية او الجغر افية)

Code	الرمز	Harbor Master	رناسة المرفأ	الوصف Description
1001		Beirut	بيروت	
1002		Chekka	شکا	
1003		Jbail	جبيل	
1004		Jounieh	جونية	
1005		Saida	صيدا	
1006		Sour	صور	
1007		Tripoli	طرابلس	

Table 1.3reference to Flag (item 1.3), Construction Country of the Vessel (item 3.5),
Construction Country of the Engine (item 4.5), Company Country (item 7.1.7) and
Owner's Country of Residence (item 7.2.7)

جدول ١,٣: يرمز إلى العلم (بند ١,٣) دولة صنّع الزورق (بند ٣,٥) دولة صنّع المحرك (بند ٤,٥) دولة الشركة (بند ٧,١,٧) ودولة سكن المالك (٧,٢,٧)

الرمز Code	اسم الدولة Country name	UN Code	ISO_3	Group
		رمز الأمم	Code	المجموعة
		المتحدة	رمز ایزو_۳	
1	أفغانستان Afghanistan	AFG	004	
3 4	ألبانيا Albania الجز ائر	ALB DZA	008	GFCM
278	الجرائر Algeria الجرائر American Samoa ساموا الأمريكية	ASM	012 016	GFCM
255	American samoa النور ا اندور ا	AND	010	
7	Andoha ، المكور ، الغولا ، الغولا ، المكور ، الم	AGO	020	
264	مراجع Anguilla انغويلا	AIA	660	
311	مناف Antarctica others	ATA	010	
10	انتيغا وبربادوس Antigua and Barbuda	ATG	028	
11	الأرجنتين Argentina	ARG	032	
12	ارمينيا Armenia	ARM	051	
13	اوروبا Aruba	ABW	533	
15	استر اليا Australia	AUS	036	
16	النمسا Austria	AUT	040	EU
17	انربيدجان Azerbaijan	AZE	031	
19	البهاماس Bahamas	BHS	044	
20	البحرين Bahrain	BHR	048	
21	بنغلادش Bangladesh	BGD	050	
22	باربادوس Barbados	BRB	052	
23 24	روسيا البيضاء Belgium	BLR BEL	112 056	EU
300	Belgium-Luxembourg باجيكا باجيكالوكسمبورغ		058	-
25	Belize Hitz	BLZ	038	
26	بنین Benin	BEN	204	
20	Bermuda برمودا	BMU	060	
28	بوتان Bhutan	BTN	064	
29	بوليفيا Bolivia	BOL	068	
30	البوسنة والهرسك Bosnia and Herzegovina	BIH	070	
31	بتسوانا Botswana	BWA	072	
273	جزيرة بوفيت Bouvet Island	BVT	074	
34	البر ازیل Brazil	BRA	076	
260	سي المحيط الهندي التابعة لبريطانيا British Indian Ocean Territory		086	
239	الجزر العذراء البريطانية British Virgin Islands	VGB	092	
35	بروناي Brunei Darussalam	BRN	096	
36	بلغاريا Bulgaria	BGR	100	GFCM
37	بوركينا فاسو Burkina Faso	BFA	854	
38	بوروندي Burundi	BDI	108	
39	Cambodia كمبوديا	KHM	116	
40	Cameroon Canada	CMR CAN	120 124	
299	Canton and Enderbury Island جزيرة كانتون و اندربيري	CAN	124	
43	Cape Verde الراس الأخضر	CPV	132	
44	ر الکایمن Cayman Islands	CYM	132	
45	Central African Republic جمهورية افريقيا الوسطى	CAF	140	
46	Chad در و و و و در	TCD	148	
274	جزر القنال الإنكليزي Channel Islands		830	
47	Chile التشيلي	CHL	152	
101	للصين، هونغ كونغ China, Hong Kong SAR	HKG	344	
267	الصين، مكاو China, Macao SAR	MAC	446	
48	الصين China, Mainland	CHN	156	
213	الصين، تايوان China, Taiwan Prov of	TWN	158	
275	جزیرة کریسماس Christmas Island	CXR	162	
276	جزر کوکوس Cocos (Keeling) Islands	CCK	166	
51	كولومبيا Colombia	COL	170	
52	جزر القمر جزر القمر	COM	174	
246	جمهورية الكونغو الديموقر اطية Congo, Dem Republic of	COD	180	
53	جمهورية الكونغو Congo, Republic of	COG	178 184	
277 55	جزر کوك Cook Islands کوستا ریکا Costa Rica	COK CRI		
55	كوستاريخا Costa Kica	CKI	188	

Table description: list of the countries.

شرح الجدول: لائحة بأسماًء الدول

56	شاطئ العاج Côte d'Ivoire	CIV	384	
57	الملحى العاج العام الملحة العام ا كروانيا Croatia	HRV	191	GFCM
58	روبا Cuba	CUB	192	
59	قبرص Cyprus	CYP	196	GFCM
309	جمهورية تشيكيا Czech Republic	CZE	203	
60	تشكوسلوفاكيا Czechoslovakia		200	
61	الدانمرك Denmark	DNK	208	EU
62	جيبوتي Djibouti	DJI	262	
63	دومينيكا Dominica	DMA	212	
64 279	جمهورية الدومينيكان Dominican Republic تيمور الشرقية East Timor	DOM TMP	214 626	
67	East Timor تيمور الشرقية Ecuador الأكوانور	ECU	218	
68	ارتیوری مصر Egypt	EGY	818	GFCM
69	السلفادور El Salvador	SLV	222	OI CIVI
307	انکلترة و ويلز England and Wales			
70	غينيا الاستوائية Equatorial Guinea	GNQ	226	
250	اريتريا Eritrea	ERI	232	
71	استونيا Estonia	EST	233	
72	اڻيوبيا Ethiopia	ETH	231	
306	جمهورية اثييوبيا الديموقر اطية الشعبية Ethiopia PDR			
254	جزر الفاروا Faeroe Islands	FRO	234	
74	جزر الفوكلاند (Malvinas) جزر الفوكلاند	FLK	238	
75	جزر للفيجي Fiji Islands	FJI	242	
76	فناندا Finland	FIN	246	EU
80	فرنسا France غينيا الفرنسية French Guiana	FRA	250	GFCM +EU
77 78	غينيا الفرنسية French Guiana بولونيزيا الفرنسية French Polynesia	GUF PYF	254 258	
280	بوتوتيري الفرنسية French Polynesia اراضي فرنسا الجنوبية French Southern Territory	ATF	258	
81	راستي تركيب البيتويينية المالية المالية غابون	GAB	266	
83	<u> </u>	GMB	200	
281	تربی قطاع غزة (فلسطین) Gaza Strip (Palestine)		274	
84	جورجيا Georgia	GEO	268	
85	Germany المانيا	DEU	276	EU
86	غانا Ghana	GHA	288	
256	جبل طارق Gibraltar	GIB	292	
88	اليونان Greece	GRC	300	GFCM + EU
262	غرينلاند Greenland	GRL	304	
90	غرانادا Grenada	GRD	308	
91	غوادالوب Guadeloupe	GLP	312	
282	غوام Guam غواتيمالا Guatemala	GUM	316	
93 94	غواتيمالا Guinea غينيا	GTM GIN	320 324	
95	عيديا بيساو Guinea-Bissau	GNN	624	
96	<u>میت بیس و</u> Guyana <u>ناب این و</u>	GUY	328	
97	-ریات Haiti	HTI	332	
283	بری جزیرة هیرد ومکدونالدز Heard and McDonald Island	HMD	334	
257	هولي سي Holy See	VAT	336	
100	هندور اس Honduras	HND	340	
102	هنغاريا Hungary	HUN	348	
103	ايسلندا Iceland	ISL	352	
104	الهند India	IND	356	
105	اندونيسيا Indonesia	IDN	360	
106	ایران Iran, Islamic Rep of	IRN	364	
107	العراق Iraq	IRQ	368	
108	ايرلندا Ireland	IRL	372	EU
284	جزیرة مان Isle of Man	IMY	833	
109	اسر ائیل Israel اطالیا Italy	ISR	376	GFCM GECM +EU
110 111	ايطاليا ltaly جاميكا Jamaica	ITA JAM	380 388	GFCM +EU
111	جاميك Jamaica اليابان اليابان	JAM JPN	388	GFCM
297	اليابان جزيرة جونستون Johnston Island	JTN	392	UICIVI
114	بریز ، بولسون الأردن Jordan	JOR	400	
115	تورین کاز اخستان Kazakhstan	KAZ	398	
116	للفلال المعالم	KEN	404	
117	کرباتی Kiribati	KIR	296	
118	جمهورية كوريا الديموقر اطية Korea, Dem People's Rep	PRK	408	
119	Korea, Republic of جمهورية كوريا	KOR	410	
	الكويت Kuwait	KWT	414	
120		NO7	417	
121	قىرغىستان Kyrgyzstan	KGZ	417	
121 122	لاوس Laos	LAO	418	
121				

125	Lesotho	ليسوتو	LSO	426	
125	Liberia	ليبيريا ليبيريا	LSO	430	
120	Libyan Arab Jamahiriya	لسا	LBY	434	GFCM
128	Liechtenstein	ليكنيشتاين	LIE	438	
129	Lithuania	ليتوانيا	LTU	440	
130	Luxembourg	لوكسمبور غ	LUX	442	EU
132	Macedonia, The Fmr Yug Rp	مقدونيا	MKD	807	
133	Madagascar	مدغشقر	MDG	450	
135	Malawi	ملاوي	MWI	454	
136	Malaysia	ماليزيا	MYS	458	
137	Maldives	مالديف	MDV	462	
138 139	Mali	مالي مالطا	MLI MLT	466 470	 CECM+EU
139	Malta Marshall Islands	مالط جزر مارشاال	MLI	584	GFCM+EU
140	Martinique	جرر خارسان مارتينيك	MTQ	474	
141	Mauritania	موريتانيا موريتانيا	MRT	478	
143	Mauritius	موريشيوس	MUS	480	
261	Mayotte	مايوت	MYT	175	
144	Mexico	المكسيك	MEX	484	
145	Micronesia, Fed States of	ميكرونيزيا	FSM	583	
298	Midway Islands	جزر ميدواي	MID	488	
147	Moldova, Republic of	مولدافيا	MDA	498	
285	Monaco	موناكو	MCO	492	GFCM
149	Mongolia	منغوليا	MNG	496	
265	Montserrat	مونتسر ات	MSR	500	
151	Morocco	المغرب	MAR	504	GFCM
152	Mozambique	الموز امبيق	MOZ	508	
153	Myanmar Namibia	مینامار نامیبیا	MMR	104	
155 156	Nauru	ناورو ناورو	NAM NRU	516 520	
157	Nepal	<u>دورو</u> نبیال	NRU	524	
159	Netherlands	<u>بب ی</u> هو لندا	NLD	528	EU
159	Netherlands Antilles	الانتيل الهولندية	ANT	530	
308	Neutral Zone	المنطقة المحايدة		536	
160	New Caledonia	كاليدونيا الجديدة	NCL	540	
161	New Zealand	نيوزيلندا	NZL	554	
162	Nicaragua	نيكار اغو ا	NIC	558	
163	Niger	النيجر	NER	562	
164	Nigeria	نيجيريا	NGA	566	
286	Niue	نيو	NIU	570	
287	Norfolk Island	جزيرة نور فولك ابر لندا الشمالية	NFK	574	
<u>304</u> 154	Northern Ireland Northern Mariana Island	اير ندا السمانية جزيرة ماريانا الشمالية	 MNP	580	
167	Norway	جريره ماريان الشمانية. النرويج	NOR	578	
167	Oman	الطرويي <u>ج</u> عمان	OMN	512	
998	Other	<u>غیر</u> ها	OWIN		
305	Pacific Islands Trust Territory	 جزر الباسيفيك بالامانة			
169	Pakistan	الباكستان	PAK	586	
170	Palau	بالاو	PLW	585	
314	Palestine	فاسطين			
171	Panama	باناما	PAN	591	
172	Papua New Guinea	باباو غينيا الجديدة	PNG	598	
173	Paraguay	البار اغواي	PRY	600	
174	Peru	البيرو	PER	604	
175	Philippines	الفيليبين	PHL	608	
270	Pitcairn Islands	جزر بينكيم	PCN	612	
177	Poland	بولندا برتغال	POL	616	
178 288	Portugal Puerto Rico	برىغان بورتوريكو	PRT PRI	<u>620</u> 630	EU
180	Qatar	بورنوريدو قطر	QAT	634	
180	Réunion	<u>مر</u> ينيون	REU	638	
181	Romania	ريبيون رومانيا	ROM	642	GFCM
182	Russian Federation	روسيا	RUS	643	
184	Rwanda	رو : رواندا	RWA	646	
259	Saint Helena	رور سانت هیلینا	SHN	654	
203	Saint Kitts and Nevis	سانت كيتُس ونيفيز	KNA	659	
187	Saint Lucia	سانت لوشيا	LCA	662	
263	Saint Pierre & Miquelon	سانت بيير وميكيلون	SPM	666	
205	Saint Vincent/Grenadines	سانت فينست/غرينادينز	VCT	670	
188	Samoa	ساموا	WSM	882	
258	San Marino	سان مارينو	SMR	(74	
190	Sao Tome and Principe	سان مارينو ساو تومي وبرينسب	STP	674 678	

191	المملكة العربية السعودية Saudi Arabia	SAU	682	
302	اسکتاندا اسکتاندا	5/10	002	
192	سنغال Senegal	SEN	686	
193	سیشیل Seychelles	SYC	690	
194	سير اليون Sierra Leone	SLE	694	
195	Singapore تيغيري المعام الم	SGP	702	
249	Slovakia سلوفاکیا	SVK	703	
196	سلوفينيا Slovenia	SVR	705	GFCM
190	جزر سلومون Solomon Islands	SLB	090	
198	برر شومون الصومال	SOM	706	
199	افريقيا الجنوبية South Africa	ZAF	710	
289	جورجيا الجنوبية/جزر الساندويش South Georgia/Sandwich Is	SGS		
200	Spain	ESP	724	GFCM+EU
200	السباني سريلانکا Sri Lanka	LKA	144	
201	السودان Sudan	SDN	736	
207	سورينام Suriname	SUR	740	•••
253	سوالبارد ويان ماين Svalbard and Jan Mayen	SJM	744	
209	سوازیلاند Swaziland	SWZ	748	
210	السويد Sweden	SWE	752	EU
211	سويسرا Switzerland	CHE	756	
212	سوريا Syrian Arab Republic	SYR	760	GFCM
214	طاجيكستان Tajikistan	TJK	762	
215	تانز انیا Tanzania, United Rep of	TZA	834	
216	تايلاند Thailand	THA	764	
217	ٽوغو Togo	TGO	768	
291	توكلوا Tokelau	TKL	772	
219	تونغا Tonga	TON	776	
220	ترينيداد وتوباغو Trinidad and Tobago	TTO	780	
222	تونس Tunisia	TUN	788	GFCM
223	تركيا Turkey	TUR	792	GFCM
224	تركمنستان Turkmenistan	TKM	795	
225	جزیر ۃ تور کس وکیکس Turks and Caicos Island	TCA	796	
226	توفالو Tuvalu	TUV	798	
227	اوغندا Uganda	UGA	800	
229	اوکر انیا Ukraine	UKR	804	
230	الإمارات العربية المتحدة United Arab Emirates	ARE	784	
228	المملكة المتحدة United Kingdom	GBR	826	EU
233	الولايات المتحدة الأمريكية United States of America	USA	840	
999	مجهول Unknown			
231	اور وغواي Uruguay	URY	858	
292	جزر الولايات المتحدة الصغيرة البعيدة US Minor Outlying Island	UMI	581	
240	الجزر العذراء-الولايات المتحدة US Virgin Islands	VIR	85.	
293	الاتحاد السوفيتي USSR			
234	اوزبكستان "Uzbekistan	UZB	860	
235	فاناتو	VUT	548	
237	فينيزويلا Venezuela, Boliv Rep of	VEN	862	
238	فيتنام Viet Nam	VNM	704	
310	برید ویک Wake Island	WAK	872	
242	جزيرة واليس وفوتونا Wallis and Futuna Island	WLF	876	
312	West Bank (الضفة الغربية (فلسطين)		402	
295	Western Sahara الصحراء الغربية (العربية)	ESH	732	
244	اليمن Yemen	YEM	887	
313	یو غسلافیا Yugoslavia SFR		007	
245	يو غوسلافيا الاتحادية Yugoslavia, Fed Rep of	YUG	891	GFCM
243	يو توسيري (يكنيه Zambia	ZMB	894	
247				
240	زمبابوي Zimbabwe	ZWE	716	

Table 1.6 references to Vessel Type (item 1.6) Image: Comparison of the second sec

جدول ١,٦ يرمز إلى فنة الزورق (بند ١,٦)

Table description: list of the vessel types present in the country

		ميد الموجودة في البلد	، زوارق الص	شرح الجدول: لائحة بفئات
الرمز Code	Type of fishing vessel	فنة زورق الصيد	FAO	الوصف Description
02000	Purse Seiners	زوارق التحويق		
02980	Seiners Other	زوارق السينية الأخرى	0298	
03000	Trawlers	سفن الترول	0300	
07000	Gill netter	زوارق الشباك المبطنة		
08000	Trap Setters	زوارق الافخاخ	0800	
09000	Long liners	زوارق الجرجارة	0900	
09980	Liners other	زوارق الخيوط الأخرى	0998	
88000	Multipurpose	سفن المتعددة الاستعمالات	8800	
98000	Other fishing vessels	زوارق الصيد الأخرى	9800	
98001	Flouka	فلوكا	9800	
98011	Oars	مجاديف (زوارق الصيد الأخرى بدون محركات)	9801	
99000	Unknown	مجهول	9900	

Table 1.7 references to Operational Status (item 1.7)

جدول ١,٧ يرمز إلى الوضع العملاني للزورق (بند ١,٧)

Table description: list of the possible operational statuses of the vessel

شرح الجدول: لائحة بالأوضاع العملانية لزوارق الصيد

لرمز Code	Operational status	الوضع العملاني	الوصف Description
1	Operational	يعمل	
2	Non Operational	لا يعمل	
8	Other	غيره	
9	Unknown	مجهول	

Table 1.7.1 reference to Non-Activity Reason (item 1.7.1)

جدول ۱,۷,۱ : يرمز إلى سبب عدم العمل (بند ۱,۷,۱)

الرمز Code	Non activity reason	سبب عدم العمل	الوصف Description
01	Vessel or engine repairs	صيانة الزورق أو المحرك	
02	Damage	إضرار	
03	Laid up	مرفوع	
04	Document out of order	مستندات الزورق غير صالحة	
05	Sequestered (e.g. by foreign country)	محجوز	
06	Strike	إضراب	
07	Temporary fishing inactivity	عدم الصيد مؤقتا	
08	Abandoned (but not laid up)	مهجور (لکن غیر مرفوع)	
09	Bad weather	طقس سيء	
10	Temporary holiday inactivity	عظلة/عيد	
11	Gear repair (fishing gears)	إصلاح معدات الصيد	
98	Other cause	أسباب أخرى	
99	Unknown	مجهول	

Table 1.8 reference to Base Port (item 1.8) and Port Period 1-5 (item 9.1.1-5) جدول ١.٨: يرمز إلى مرفأ الارتباط (بند ١.٨) وفترات المرافئ ١-٥ (بند 5-9.1.1)

Code الرمز	Port	المرفأ	Code الرمز	Harbor Master	رئاسة مرفأ	Description الوصف
10001	Aabde	العبدة	1007	Tripoli	طرابلس	
10002	Aamchit	عمشيت	1003	Jbail	جبيل	
10003	Aaqeibe	عقيبة	1004	Jounieh	جونية	
10004	Aarida	عريضة	1007	Tripoli	طر ابلس	
10005	Ain el Mraisseh-Jisr	عين المريسة-الجسر	1008	Beirut	بيروت	
10006	Ain el Mraisseh-Manarah	عين المريسة منارة	1008	Beirut	طرابلس	
10007	Barbara	البربارة	1003	Jbail	جبيل	
10008	Batroun	بترون	1002	Chekka	شکا	
10009	Beddaoui	البداوي	1007	Tripoli	طرابلس	
10010	Bouar	البوار	1004	Jounieh	جونية	
10011	Cheikh Zennad	الشيخ زناد	1007	Tripoli	طرابلس	
10012	Chekka	شکا	1002	Chekka	شکا	
10013	Dalieh	الدالية	1008	Beirut	طرابلس	
10014	Dbaiye	ضبية	1001	Beirut-Mount Lebanon	بيروت-جبل لبنان	
10015	Dora	الدورة	1001	Beirut-Mount Lebanon	بيروت جبل لبنان	
10016	Enfe	انفه	1002	Chekka	شکا	
10017	Halat	حالات	1004	Jounieh	جونية	
10018	Heri	ألهري	1002	Chekka	شکا	
10019	Jadra	جدرا	1001	Beirut-Mount Lebanon	بيروت-جبل لبنان	
10020	Jal el Baher	جل البحر	1008	Beirut	طر ابلس	
10021	Jbail	جبيل	1003	Jbail	جبيل	
10022	Jnah/Cote D'Azour	الجناح/كوت دازور	1001	Beirut-Mount Lebanon	بيروت-جبل لبنان	
10023	Jounieh/Kaslik	جونية/كسليك	1004	Jounieh	جونية	
10024	Kfar Aabida	کفر عبیدا کفر عبیدا	1001	Chekka	شکا	
10025	Kfar Yaseen/	كفر	1002	Jounieh	جونية	
1000	Adma/Tabarja	ياسين/أدما/طبرجا	100-			
10026	Minie	منية	1007	Tripoli	طرابلس	
10027	Nahr El Kalb	نهر الكلب	1001	Beirut-Mount Lebanon	بيروت جبل لبنان	
10028	Naqoura	الناقورة	1006	Sour	صور	
10029	Ouzaii	اوزاعي	1001	Beirut-Mount Lebanon	بيروت-جبل لبنان	
10030	Qalamoun	القلمون	1007	Tripoli	طرابلس	
10031	Saadiyat	السعديات	1001	Beirut-Mount Lebanon	بيروت جبل لبنان	
10032	Safra	صفرا	1004	Jounieh	جونية	
10033	Saida	صيدا	1005	Saida	صيدا	
10034	Sarafand-Ain Qantara	صرفند-عين قنطرة		Saida	صيدا	
10035	Sarafand-Mounis	صرفند مونس		Saida	صيدا	
10036	Sarafand-Zeereh	صرفند-زيرة	1005	Saida	صيدا	
10037	Sour	صور	1006	Sour	صور	
10038	Tripoli/Al-Mina	طر ابلس/المينا	1007	Tripoli	طرابلس	
10039	Selaata	سلعاتا	1001	Tripoli	طرابلس	
10040	Hay el Bahr	حي البحر	1007	Tripoli	طرابلس	
10041	Tripoli-Huqran	طر ابلس/حقر ان	1007	Tripoli	طرابلس	
10042	Sour-Rest House	صور ـالاستر احة	1004	Sour	صور	
10043	Enfe-Nuhairy	انفه-نهير ي	1007	Chekka	شکا	
10044	Enfe-Dabbaghah	انفهدباغة	1007	Chekka	شکا	
10045	Enfe-Rmeilet	انفه-رميلة	1007	Chekka	شکا	
10046	Hamat-Roca Marina	حامات-روكا مارينا	1007	Chekka	شکا	
10047	Halat-Fidar	حالات فيدار	1004	Jounieh	جونية	
10048	Jamil Gemayyel	جميل جميل	1001	Beirut-Mount Lebanon	بيروت جبل لبنان	
10049	Naame	ناعمة	1001	Beirut-Mount Lebanon	بيروت جبل لبنان	

شرح الجدول : لائحة بالمرافئ المجودة في لبنا ن Table description: list of the ports present in the country

Table 2.2.1reference to Fishing Gear (items 2.2.1-6) and Fishing Gear Category (item 10.1)جدول ۲,۲,۱ یرمز إلى شباك الصيد المرخصة (بنود 6-2.2.1) وفئة معدات الصيد (بند ۲,۱۰)

Table description: list of the fishing gears which can be present on the vessel.

شرح الجدول: لائحة بمعدات الصيد الممكن وجودها على الزورق

Code الرمز	Fishing Gear	معدات الصيد	Class Code رمز الفنة	FAO Class Code رمز الفاو للفنة
01000	SURROUNDING NETS	شباك الإحاطة / التحويق	01	01
01100)	With purse lines (purse seines)	مع حبال الجزدان (شباك البرسينة/المصيدة)	01	01
01110	One boat operated purse seines	شباك البرسينة المدارة بمركب واحد	01	01
01120	Two boats operated purse seines	شباك البرسينة المدارة بمركبين	01	01
01200	Without purse lines (lampara)	بدون حبال الجزدان (شباك اللمبارا)	01	01
02000	SEINE NETS	شباك السينية/الجرف	02	02
02100	Beach seines	شباك السينية الساحلية/ جاروفة بر	02	02
02200	Boat or vessel seines	شباك الزوارق السينية/جاروفة عمق	02	02
02210	Danish seines	الشباك السينية الدانمركية	02	02
02220	Scottish seines	الشباك السينية الاسكتلندية	02	02
02230	Pair seines	شباك السينية المزدوجة	02	02
02900	Seine nets (not specified)	الشباك السينية (غير محددة)	02	02
03000	TRAWLS	شباك الترول	03	03
03100	Bottom trawls	شباك الترول القاعية	03	03
03110	Bottom beam trawls	شباك الترول ذوات العوارض	03	03
03120	Bottom otter trawls	شباك الترول ذوات ألواح الاوتر	03	03
03130	Bottom pair trawls	شباك الترول المزدوجة	03	03
03140	Bottom nephrops trawls	شباك الترول النفروبس	03	03
03150	Bottom shrimp trawls	شباك الترول للقريدس	03	03
03190	Bottom trawls (not specified)	شباك الترول القاعية (غير محددة)	03	03
03200	Midwater trawls	شباك الترول للاعماق المتوسطة	03	03
03210	Midwater otter trawls	شباك الترول للاعماق المتوسطة ذوات ألواح الاوتر	03	03
03220	Midwater pair trawls	شباك الترول للاعماق المتوسطة المزدوجة	03	03
03230	Midwater shrimp trawls	شباك الترول للاعماق المتوسطة للقريدس	03	03
03290	Midwater trawls (not specified)	شباك الترول للاعماق المتوسطة (غير محددة)	03	03
03300	Otter twin trawls	· · روى المزدوجة ذوات ألواح الترول	03	03
03490	Otter trawls (not specified)	شباك الترول ذوات ألواح الترول (غير محددة)	03	03
03590	Pair trawls (not specified)	شباك الترول المزدوجة (غير محددة)	03	03
03900	Other trawls (not specified)	شباك الترول (غير محددة)	03	03
04000	DREDGES	الشباك الجارفة	04	04
04100	Boat dredges	جاروفة بحر / طبليات	04	04
04200	Hand dredges	جاروفة بر	04	04
05000	LIFT NETS	شباك الرفع	05	05
05100	Portable lift nets	شباك الرفع القابلة للحمل	05	05
05200	Boat -operated lift nets	شباك الرفع التي تدار من الزورق	05	05
05300	Shore -operated stationary lift nets	شباك الرفع التي تدار من الساحل	05	05
05900	Lift nets (not specified)	شباك الرفع (غير محددة)	05	05
06000	FALLING GEAR	أدوات الصيد المهابطة	06	06
06100	Cast nets	شباك الطرح	06	06
06900	Falling gear (not specified)	أدوات الصيد الهابطة (غير محددة)	06	06
07000	GILLNETS AND ENTANGLING NETS	شباك الغل/البشلولة والشرك	07	07
07100	Set gillnets (anchored)	شباك الغل المثبتة/بشلولة	07	07
07200	Driftnets	الشباك الانجر افية/الانسيابية	07	07
07300	Encircling gillnets	شباك الغل/البشلولة التحويقية	07	07
07400	Fixed gillnets (on stakes)	شباك الغل/البشلولة المثبتة (على أوتاد)	07	07
07500	Trammel nets	الشياك الميطنة	07	07
07600	Combined gillnets- trammel nets	شبباك المبطن- شباك الغل/البشلولة المتحدة	07	07

07900	Gillnets and entangling nets (not specified)	شباك الغل/البشلولة و الشرك (غير محددة)	07	07
07910	Gillnets (not specified)	شباك البشلولة (غير محددة)	07	07
08000	TRAPS	أفخاخ	08	08
08100	Stationary uncovered pound nets	شباك الباوند المكشوفة الثابتة	08	08
08200	Pots	السلال/ الأقفاص	08	08
08300	Fyke nets	شبكة صيد (كيسية الشكل)	08	08
08400	Stow nets	شباك التجميع	08	08
08500	Barrier, fences, weirs, etc	العوائق، الأسوار، سياج قضبان، الزرائب، الخ	08	08
08600	Aerial traps	الافخاخ الهوائية	08	08
08900	Traps (not specified)	أفخاخ (غير محددة)	08	08
09000	HOOKS AND LINES	الصنانير والقصبات	09	09
09100	Handlines and pole- lines (hand operated)	الخيوط والبولص (التي تدار يدويا)	09	09
09200	Handlines and pole lines (mechanized)	الخيوط والبولص (التي تدار ميكانيكيا)	09	09
09300	Set longlines	الشرك	09	09
09400	Drifting longlines	الجرجارة	09	09
09500	Longlines (not specified)	الخيوط الطويلة (غير محددة)	09	09
09600	Trolling lines	خيوط الصنانير	09	09
09900	Hooks and lines (not specified)	الصنانير والقصبات (غير محددة)	09	09
10000	GRAPPLING AND WOUNDING	الإمساك والتجريح	10	10
10100	Harpoons	الحراب	10	10
11000	HARVESTING MACHINES	آلات الحصاد	11	11
11100	Pumps	المضخات	11	11
11200	Mechanized dredges	الجواريف التي تدار آليا	11	11
11900	Harvesting machines (not specified)	آلات الحصاد (غير محددة) معدات متنوعة	11	11
20000	MISCELLANEOUS GEAR		20	20
25000	RECREATIONAL FISHING GEAR	معدات صيد الهواة	25	25
98000	Other Gear	معدات أخرى	98	98
99000	GEAR NOT KNOWN OR NOT SPECIFIED	معدات غير معروفة أو غير محددة	99	99

Table 2.2.1A National Fishing Gear Classes

جدول A ۲,۲,۱ التصنيف اللبناني لفئات معدات الصيد

Table description: list of national fishing gear classes.

شرح الجدول: لائحة بالتصنيف اللبناني لفئات معدات الصيد

الرمز Code	Gear Class English Name	فئة معدات الصيد	الوصف Description
01	Surrounding Nets	شباك الإحاطة / التحويق	
02	Seine Nets	شباك السينية/الجرف	
03	Trawls	شبباك الترول	
04	Dredges	الشباك الجارفة	
05	Lift Nets	شباك الرفع	
06	Falling Gear	أدوات الصيد الهابطة	
07	Gillnets and Entangling Nets	شباك الغل/البشلولة والمبطن	
08	Traps	أفخاخ	
09	Hooks and Lines	الصنانير والقصبات	
10	Grappling and Wounding	الإمساك والتجريح	
11	Harvesting Machines	آلات الحصاد	
20	Miscellaneous Gear	معدات متنوعة	
25	Recreational Fishing Gear	معدات صيد الهواة	
98	Other Gear	معدات أخرى	
99	Gear Not Known or Not Specified	معدات غير معروفة أو غير محددة	

جدول B T, T, 1 تصنيف الفاو لفئات معدات الصيد

Table 2.2.1 B FAO Fishing Gear Classes

الرمز Code	Gear Class English Name	فئة معدات الصيد	الوصف Description
01	Surrounding Nets	شباك الإحاطة / التحويق	
02	Seine Nets	شباك السينية/الجرف	
03	Trawls	شبباك الترول	
04	Dredges	الشباك الجارفة	
05	Lift Nets	شبباك الرفع	
06	Falling Gear	أدوات الصيد الهابطة	
07	Gillnets and Entangling Nets	شباك الغل/البشلولة والشرك	
08	Traps	أفخاخ	
09	Hooks and Lines	الصنانير والقصبات	
10	Grappling and Wounding	الإمساك والتجريح	
11	Harvesting Machines	آلات الحصاد	
20	Miscellaneous Gear	معدات متثوعة	
25	Recreational Fishing Gear	معدات صيد الهواة	
98	Other Gear	معدات أخرى	
99	Gear Not Known or Not Specified	معدات غير معروفة أو غير محددة	

Table description: list of FAO fishing gear classes.

شرح الجدول: لائحة بتصنيف الفاو لفئات معدات الصيد

Table 3.7 reference to Hull Material (item 3.7)

جدول ۳,۷ يرمز إلى مواد صنع بدن الزورق (بند ۳,۷)

Table description: list of materials which can be used to construct the vessel.

شرح الجدول: لائحة بالمواد الممكن استعمالها في بناء الزورق

الرمز Code	Hull material	مواد بدن الزورق	الوصف Description
01	Wood	خ شب	
02	Marine plywood	معاكس بحري	
03	Aluminum	ألمنيوم	
04	Iron/Steel	حديد/فو لاذ	
05	Fiberglass	فايبرغلاس	
06	Rubber	مطاط	
07	Cement	اسمنت	
08	Plastic	بلاستيك	
٠٩	Wood/Fiber	خشب/فليبر غلا <i>س</i> خشب/حديد	
10	Wood/Iron	خشب/حدید	
98	Other	غيرها	
99	Unknown	مجهول	

جدول ٤,٤ يرمز إلى مصدر الطاقة (الوقود) (بند ٤,٤) (tem 4.4) (العقود) (ال

Table description: list of the energy source types for the propulsion of the vessel's engine.

شرح الجدول: لائحة بأنواع مصادر الطاقة (الوقود) لدفع محرك الزورق

الرمز Code	Energy Source English Name	نوع الوقود	الوصف Description
01	Diesel	ديزل	
02	Petroleum	بترول	
03	Electricity (generated on board)	کھرباء (مولدة على الزورّق)	
04	Petrol/Gasoline	بنزين	
05	Petrol/Gasoline mixed with oil	خليط بنزين مع زيت	
98	Other	غيرها	
99	Unknown	مجهول	

Table 5.1.1.1 reference to Navigation equipments (items 5.1.1.1-5.1.4.1)

Table description: list of the navigation equipment which can be present on the vessel.

شرح الجدول: لائحة بأجهزة الملاحة الممكن وجودها على الزورق

الرمز Code	Navigation Equipment English Name	اسم الجهاز	Description
			الوصف
01	No navigation equipment	لا يوجد أجهزة ملاحة	
02	Loran C	لوران C	
03	Loran A	لوران A	
04	Omega	اوميغا	
05	Decca	دیکا	
06	GPS (Satellite navigation)	جي بي اس (الملاحة بواسطة الأقمار الاصطناعية)	
07	Radar	رادار	
08	Direction finder	محدد الاتجاه	
09	Automatic pilot	ملاح أوتوماتيكي	
10	Meteorological map receiver	لاقط لخرائط الطقس	
11	Gyrocompass	بوصلة دوارة	
98	Other	غيرها	
99	Unknown	مجهول	

جدول ۲,۱,۱ ترمز إلى أجهزة الاتصال (بنود ۲,۱,۱ - ۰,۲,۳,۱)

Table description: list of the communication equipment which can be present on the vessel.

شرح الجدول: لائحة بأجهزة الاتصال الممكن وجودها على الزورق

الرمز Code	Communication Equipment English	أجهزة الاتصالات	Description
	Name		الوصف
1	Radio VHF	جهاز لاسلكي	
2	Radio telephone	تلفون لاسلكي	
3	Cellular phone	تلفون خليوي	
4	Fax	فاكس	
5	Satellite radio	جهاز لاسلكي بواسطة الأقمار الاصطناعية	
6	Telegraph	تلغراف	
8	Other	غيرها	
9	Unknown	مجهول	

Table 5.3.1.1 reference to Fish Finder apparatus (items 5.3.1.1-5.3.3.1) جدول ۳,۱,۱،۵ يرمز إلى جهاز كشف الأسماك (بنود ۳,۱,۱ م ۹,۳,۳,۱)

Table description: list of the fish finder apparatus which can be present on the vessel.

حة بأجهزة كشف الأسماك الممكن وجودها على الزورق	شرح الجدول: لا
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الرمز Code	Fish Finder Apparatus English Name	جهاز تحديد الأسماك	الوصف Description
1	Echo sounder	مرجع الصدي (ايكو ساوندر)	
2	Sonar	سونار	
3	Net sond	نیت سوند	
8	Other	غيرها	
9	Unknown	مجهول	

Table 6.1 reference to Method of Activating the Fishing Gear (item 6.1)

جدول ٦,١ يرمز إلى طريقة تشغيل معدات الصيد (بند ٦,١)

Table description: list of the gear activation methods which can be present on the vessels.

	633		
الرمز Code	Activation Method English Name	نظام التشغيل	الوصف Description
01	Manual	يدو ي	
10	Automatic	أوتوماتيكي	
11	Automatic -Mechanical	أوتوماتيكي – ميكانيكي	
12	Automatic -Hydraulic	أوتوماتيکي ۔ ھيدروليکي	
13	Automatic -Electric	أوتوماتيكي- كهربائي	
14	Automatic -Belts	أوتوماتيكي- أحزمة	
20	Semi-Automatic	نصف أوتوماتيكي	
21	Semiautomatic -Mechanical	نصف أوتوماتيكي_ ميكانيكي	
22	Semiautomatic -Hydraulic	نصف أوتوماتيكي - هيدروليكي	
23	Semiautomatic -Electric	نصف أوتوماتيكي ـ كهربائي	
24	Semiautomatic -Belts	نصف أوتوماتيكي ـ أحزمة	
31	Not Present	غير موجود	
98	Other	غيره	
99	Unknown	مجهول	

شرح الجدول: لائحة بطرق تشغيل معدات الصيد الممكن وجودها على الزورق

Table 6.2 reference to Winches Operated by (items 6.2-7)

جدول ٢,٢ يرمز إلى طريقة تشغيل الونشات (بنود ٢,٢ - ٢,٧)

Table description: list of the activation methods of the winches which can be present on the vessel.

شرح الجدول: لائحة بطرق تشغيل الونشات الممكن وجودها على الزورق

الرمز Code	Method of activating the winch English Name	طريقة تشغيل الونشات	الوصف Description
1	Not present	غير موجود	
2	Mechanical	ميكانيكية	
3	Hydraulic	هيدروليكية	
4	Electric	كهربائية	
5	Belts	أحزمة	
8	Other	غيرها	
9	Unknown	مجهول	

جدول ۷٬۱۰۱ يرمز إلى نوع الشركة (بند ۷٬۱۰۱) (tem 7.1.1) (۷٬۱۰۱ يرمز إلى نوع الشركة (بند ۲۰۱۱)

Table description: list of the types of ownership.

شرح الجدول: لائحة بأنواع الملكية

الرمز Code	Type of company English Name	نوع الشركة	الوصف Description
01	National private	وطنية خاصة	
10	State company	شركة حكومية	
11	National private industrial	وطنية خاصة صناعية	
12	National cooperative	تعاونية وطنية	
13	National partnership	شراكة وطنية	
19	National undecided	وطنية غير محددة	
20	Foreign company	شركة أجنبية	
30	Joint venture	مشروع مشترك	
98	Other	غيرها	
99	Unknown	مجهول	

Table 7.2.2 reference to Operated by (item 7.2.2) Table description: list of possible operators of the company.

جدول ٧,٢,٢ يرمز إلى مشغلة بواسطة (بند ٧,٢,٢) **شرح الجدول:** لائحة بالمشغلين الممكنين للشركة

الرمز Code	Operator English Name	المشغل	الوصف Description
1	Owner	المالك	
2	Operator	مشىغل	
8	Other	غيره	
9	Unknown	مجهول	

جدول ٥, ٥٠ يرمز إلى مناطق الصيد (بند ١٠,٥) Table 10.5 reference to Fishing zones (item 10.5)

Table description: list of the fishing zones where the vessels present in the country have fished.

ن تصطاد	للبنانية أ	ين للزوارق ا	حيث يمد	لائحة بمناطق	شرح الجدول: ا
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الرمز Code	Description	الوصف
10010	North - Less than 3 miles	الشمال – اقل من ٣ أميال
10011	North - Less than 6 miles	الشمال – اقل من ٦ أميال
10012	North - Less than 9 miles	الشمال – اقل من ۹ أميال
10013	North - Less than 12 miles	الشمال – اقل من ۱۲ میل
10014	North - More than 12 miles	الشمال – أكثر من ١٢ ميل
10020	Mount Lebanon - Less than 3 miles	جبل لبنان – اقل من ۳ أميال
10021	Mount Lebanon - Less than 6 miles	جبل لبنان – اقل من ٦ أميال
10022	Mount Lebanon - Less than 9 miles	جبل لبنان – اقل من ۹ أميال
10023	Mount Lebanon - Less than 12 miles	جبل لبنان – اقل من ۱۲ میل
10024	Mount Lebanon - More than 12 miles	جبل لبنان – أكثر من ۱۲ ميل
10030	Beirut - Less than 3 miles	بیروت _ اقل من ۳ أمیال
10031	Beirut - Less than 6 miles	بیروت _ اقل من ۲ أمیال
10032	Beirut - Less than 9 miles	بیروت – اقل من ۹ أمیال
10033	Beirut - Less than 12 miles	بیروت _ اقل من ۱۲ میل
10034	Beirut - More than 12 miles	بیروت – اکثر من ۱۲ میل
10040	South - Less than 3 miles	الجنوب – اقل من ٣ أميال
10041	South - Less than 6 miles	الجنوب – اقل من ٦ أميال
10042	South - Less than 9 miles	الجنوب – اقل من ٩ أميال
10043	South - Less than 12 miles	الجنوب – اقل من ١٢ ميل
10044	South - More than 12 miles	الجنوب – أكثر من ١٢ ميل
10098	Other	غيره
10099	Unknown	مجهول

Table 10.6 references to Targeted stock /species (item 10.6)

جدول ١٠,٦ يرمز إلى الأرصدة السمكية / أصناف الأسماك المستهدفة (بند ١٠,٦)

 Table description:
 list of the stocks.

Table	description: list of the stocks.	حة بالأرصدة السمكية	شرح الجدول: لائ
Code الرمز	Main stock name	الأرصدة الأساسية	Description الوصف
31	Small gregarious pelagic (e.g. anchovies, sardines, mackerel)	الأسماك البيلاجية (السطحية) الصغيرة التي تعيش في مجموعات (مثل الانشوا، سردين، ومكاريل)	
32	Large pelagic (e.g. tunas, amberjacks)	الأسماك البيلاجية (السطحية) الكبيرة (مثل التونا)	
33	Demersal inshore species, mainly of hard sub-stratum (e.g., sea-bream)	الأسماك القاعية القريبة من الشاطئ، عادة في الطبقات القاسية (مثل الفريديات)	
34	Demersal offshore species, mainly of soft sub-stratum (e.g. codfish)	الأسماك القاعية البعيدة من الشاطئ، عادة في الطبقات الطرية (مثل سمكة القد)	
35	Sessile organisms (e.g., clams, mussels, warty venus)	المخلوقات الثابتة (مثل الصدف، بلح البحر)	
36	Special fish, monospecies and similar (e.g., lobsters, red porgy)	اسماك خاصة، الأصناف المنفردة وغيرها (مثل الكركند)	
37	Coryphaena hippurus (Lampuki)	لمبوكا	
38	Octopus	إخطبوط	
98	Other	غيرها	
99	Unknown	مجهول	

Table 11.1.5.3 reference to Ice Format (item 11.1.5.3)

جدول ١١,١,٥,٣ يرمز إلى شكل الثلج (بند ١١,١,٥,٣)

Table description: list of the ice formats which can be present on the vessel.

شرح الجدول: لائحة بأشكال الثلج الممكن وجودها على الزورق

الرمز Code	Ice format English Name	شكل الثلج	الوصف Description
1	Bars	ألواح	
2	Cubes	مكعبات	
3	Scales	مبشور	
4	Grinded	مطحون	
8	Other	غيره	
9	Unknown	مجهول	

Appendix 4

نعم

Lebanese Fishing Ports Survey

مسح مرافئ صيد الأسماك اللبنانية

Name of Port / Landing site: Official Port / Landing site: Governorate Kada Liaison Port Coordinates:

	اسم المرفأ / المربط
⊔ No کلا	مرفأ / مربط رسمي
	المحافظة
	القضاء
	مرفأ الارتباط
	إحداثيات



1.	Breakwater	نعم Yes ا	کلا № □	كاسر الأمواج
	1.1 Necessity:	نعم Yes 🗆	⊔ No کلا	الضرورة
	1.2 Type:			النوع
		Rubble	صخور وأنقاض	
		Reinforced Concrete Wall	حائط خرسانة مسلحة	
		Other Precast Concrete structures	إشكال خرسانية أخرى مسبقة الصب	
	1.3 Length of B	reakwater: m	متر	طول كاسر الموج:
	1.4 Remarks			ملاحظات

2. Fish ha	andling basin fo	r offloading	🗆 Yes	نعم	D No	کلا	لة الأسماك عند تفريغها	حوض معاما
2.1	Length:	m					متر	الطول:
2.2	Description/I	Remarks					للحظات	الوصف/م

3. Boat servicing basin f	or maintenance		سيانة الزوارق	حوض خدمة وم
	نعم Yes 🗆	کلا No کلا		
3.1 Length:	m		متر	الطول:
3.2 Description/	Remarks		ت	الوصف/ملاحظا
3.3 Lifting Equipment	nt			معدات رفع
3.3.1 Winch				رافعة / ونش
□ Han	يدوية d operated	Hydraulic	هيدروليكية	
□ Elec	كهربائية trical	Belts	أحزمة	
□ Other	غیر ہا	_		
3.3.2 Winch Capa	city : ton		_طن	القدرة:
3.3.3 Remarks	• • • •			ملاحظات

4. Quay/Jetty wall					اتئ	بط السفن الن	رصيف/ مد
4.1 Quay							رصيف
4.1.1 Construct	الإنشاء tion Material	مواد					
	Solid Construction				إنشاء ثابت		
	Piles				على ركائز		
	Floating: timber ove	er treated en				e	
			و بر اميل بلاستيكية	ط فار غة ا		عائم: أخشاب	2
4.1.2 Length:	m			_ متر	طول:		
4.1.3 Width:	m			_ متر	عرض:		
4.1.4 Depth:	m			متر	عمق:		
4.1.5 Remarks	ملاحظات						
4.2 Jetty	□ Yes	نعم	کلا No ک				محط السفن
4.2.1 Construct	tion Material					۶	مواد الإنشا
	Timber/Precast conc						
			ئز من الخشب/فو لاذ/			شب/ خرسا	2
	Floating: timber ove	er treated en				e	
			و بر اميل بلاستيكية	ط فار غة ا	فوق بر اميل نف	مائم: أخشاب	
4.2.2 Length:	m					_ متر	طول:
4.2.3 Width:	m					متر	عرض:
4.2.4 Depth:	m					_ متر	عمق:
4.2.5 Remarks							ملاحظات

5. Slipway (man-ma	5. Slipway (man-made slope) with a simple winch					
	نعم Yes 🗆	کلا № □				
5.1 Material			المواد			
	Concrete	اسمنت				
	Timber	خشب				
5.2 Width:	m		العرض:متر			
5.3 Length:	m	متر	الطول:			
5.4 Slope:	%		الاتحدار:%			
5.5 Winch			رافعة / ونش			

	Hand operated Electrical	يدوية كهربائية		Hydraulic Belts	هيدروليكية أحذمة	
	Other :	تهربي-	ی غیر ہا	Dens	احزمه	
5.5.1 C	apacity:	ton	عیر ت		طن	القدرة:

6 Tie-uj	o area for boats;	نعم Yes 🗆	کلا № □	منطقة ربط الزوارق
	For anchorage			للربط
	waiting for maintenance	e and/or spare parts		المنتظرة الصيانة و/أو قطع غيار
	other: Specify			غیرها: حدد:

7	Mo	oring fitting	<u>1</u> 8	تجهيزات مراسي السفن
	7.1	Bollards		مر ابط الحبال
			فو لاذ Steel	
			خشب Timber	
			آخر Other	
	7.2	Mooring ri	ng 🛛 Yes نعم No کلا ng	مربط حلقة
	7.3	Fenders	کلا No 🗅 نعم Yes	سياج واقي
			افرادية إطارات مستعملة مستخدمة كواق (Individual (Used car tyres as fenders)	
			خشب Timber	
			و اق خشبي متو اصل O Continuous timber fender	
			أخشاب عاموديه كل متر O Vertical timber strips every m	
	7.4	Mooring li	فطاسات کلا No 🗅 نعم Yes I Yes فطاسات	حبال/جنازير الربط وال
		7.4.1 Gal	vanized chain	جنزير
			متر Length: m	طول:
			سم Diameter: cm	
		7.4.2 Rop	e	حبل
			متر Length: m	
			سم Diameter: cm	
		7.4.3 Sha		مشبك
			"D"	"D"
			Other	غيره
		7.4.4 Buoy	s □ Yes تعم Yes کلا No	عوامة
		7.4.5 Vesse	el's own anchor 🛛 Yes کلا No کلا	مرساة المركب نفسه

8	Aids t	to naviga	tion	🗆 Yes	نعم		کلا 0	مساعدات الملاحة
	8.1	Class						الصنف
		Landfa	ll lights: lighth	ouses which a	re invaria	ably of great power	and are usually	y visible at a
		great dis	stance.				_	
								مصابيح اقتراب من اليابس
			0		1	r, but their primary f	function is to in-	dicate the
		position	of a harbor mo					
			اِأس بحري	, مدخل الميناء أو ر	رة إلى موقع	ظيفتهم الأساسية هي الإشار	قدرة كبيرة، لكن و	مصابيح موقع: أيضا لديهم
						Lightbuoys which m	ark the existend	ce of an
			e shoal or rock,					
		يشمل ذلك	الملاحة المضيئة:	ة للملاحة مساعدات	ِ قناة صالحا	من الشاطئ أو صخرة، أو	وجود ضحل قريب	عوامات مضيئة التي تحدد
		0	Lantern mou	nted on a float	ing buoy	and anchored.		
								فانوس محمول على عواما
		0	Fixed marker	r.			•	علامة ثا
	8.2	Lights a	re distinguisha	ble from each	h other b	у	واعها بالتالي	المصابيح يمكن تمييز أن
		8.2.1 (Character:					صفاته
			Fixed: a fixe	d or steady lig	sht which	is eclipsed or blank		
						في فتر ات محددة	ذي يكسف أو يخفى	ثابتة : مصباح ثابت الا
						carry flashing or oc	culting lights to	0
						of moored vessels.		
				واء السفن الراسية	ز ها عن أض	يح و امضة أو كاسفة لتميي	بئة دائما تحمل مصاب	
			Occulting					كاسفة

8.2.2	الألوان Color:
	The color of a light unless otherwise specified must be white.
	ألوان الأضواء يجب أن نكون بيضاء
	Position lights are usually red (port or left side) and green (starboard or
	right side).
	مصابيح الموقع هي عادة حمراء (من جهة المرفأ أو اليسار) وخضراء (من الميمنة)
8.2.3	Period: The period of a light is the interval between recommencement of
	successive phases: minutes
	ا لفترة : فترة الضوء هي الفترة بين مواصلة المراحل المتتالية: دقيقة
	In a simple flashing light the period is the length of time between one flash and the next:
	in a group flashing system it is the interval between the beginning of one complete phase
	and the beginning of the next.
	في مصباح بسيط، الفترة هي الوقت بين ومضنة وأخرى. في مجموعة مصابيح ومضية الفترة هي الفترة بين بدء
	مرحلة كاملة وبداية المرحلة الثانية

9 Refueling point		🗆 Yes	نعم	🗆 No	کلا	محطة تزود بالوقود
9.1 Location						الموقع
	Central					مر کز ي
	Other: Sp	becify				آخر : حدد
9.2 Type						نوع
	Simple					بسيط
	Professio	nal				محترف
9.3 Fuel Typ	e					نوع الوقود
	Diesel		ديزل		Gasoline	بنزين
	Other		:غیرہ			
9.4 Fuel Tan	ık					خزان وقود
	Size:	_ m3				حجم:م٣
	Туре					نو ع
	0	Oil barrels				بر امیل ن
	0	Galvanized Ste	eel		خلفن	فو لاذ م
	0	Plastic			رستيك	بلا

10 Waste oil & slops disp	oosal/separation	التخلص أو فصل الزيوت المستعملة والفضلات				
10.1 Slops			الفضلات			
10.1.1 Collection			جمع			
	Throw directly into sea	ر مي مباشر ة في البحر تجميع في مستو عبات				
	Collect slops in boxes	تجميع في مستو عبات				
	Collect in one location then bu	تجميع في مكان واحد ثم حرقها rn				
10.1.2 Disposal			نقل			
	ality البلدية	مقاول Contractor 🗆				
\Box Other	غيره					
10.2 Waste oil			الزيوت المستعملة			
10.2.1 Collection			جمع			
	Throw directly into sea	ر مي مباشر ة في البحر				
	Collect in drums	ر مي مباشرة في البحر تجميع في بر اميل				
	Collect in one location	تجميع في مكان و احدا				
10.2.2 Disposal			نقل			
	ality البلدية	مقاول Contractor 🗆				
□ Other	غيره					
	1					

11 Toilets and washrooms 🛛 Yes مراحیض و حمامات کلا 🛛 No کلا

12 Sewage disposal for fish handling areas (fish stalls) and sanitary facilities (toilets) تصريف المبتذلة الناجمة عن تنظيف الأسماك والمنشئات الصحية							
12.1 Septic	Fank	🗆 Yes	نعم	D No	کلا		حفرة صحية
12.1.1 S	eptic Tank Cleanu	o:					تتظيف الحفرة الصحية
	□ Contractor	مقاول		\Box Other	فيره	ė	
12.2 Munici	pal sewer	🗆 Yes	نعم ;		□ No	کلا	مجارير عمومية
12.3 Soakaw	vay	🗆 Yes	نعم ہ		□ No	کلا	حوض ترسيب/امتصاص
	Proximity to nearby urban centers: m						
				كنية القريبة: متر	نىرية/الس	كز الحظ	قربها من المراة
					llow bo	orehole	e or well: m
	ىمىق):متر	بِئر ضحل أو ع	لجوفية (قربها من مياه الشرب اا			
12.4 Sewage	Effluent Treatmo	ent (if using	g fresh	water)	باه عذبة)	عمال مي	معالجة مياه المجاري (بحال است
		□ Yes	نعم	D No	کلا		
12.5 Screens	5	□ Yes	نعم	🗆 No	کلا		مصافي منخل
12.6 Traps		□ Yes	نعم	🗆 No	کلا		مصيدة أوساخ/محبس روائح

13 Fish hall for so							
12.1 5.1 0	. 11/			ي ذلك متجر ثلج	وتثليج الأسماك بما ف		قاعة اسماك لفرز ساحة مزاد الأس
13.1 Fish St					≥لا N₀ ⊔		مواد الإنشاء الح
	Walls Constru		al		0	بیط آن اسمندت	مواد الإنساء الح
	Wooden	خشبية			Concrete	اسمنت	
	Metal	حديد			Container	مستوعب	
	Other	غیر ها					
13.1.2	2 Roof Constru	uction Materia	al			ن	مواد إنشاء السق
	Wooden	خشبية			Concrete	اسمنت	
	Metal	حديد			Container	مستوعب	
	Other	غير ها					
13.2 Water s	source					ستعملة	مصدر المياه الم
	Seawater	مياه البحر			Freshwater	ذبة	میاہ ع
13.3 Draina						لمبتذلة	تصريف المياه ا
		if using Seaw	لبحر) (vater	ال استعمال مياه ا	سيب/امتصاص (بحا		
		(if using free			حية (بحال استعمال م		
			, (ute 1)		,	مجارير	
13.4 Cold St			نعم		کلا No ک	<u>بو رو .</u>	مخزن مبرد و ثا
		s/Refrigerato			دة/ ثلاجة	غرف میر	
Π	Ice					ثلج	
	OBlock	Ļ	قالد	0	Flake	ر قاقات	
		حوق/ مبروش	مىد	0		أنبوبي	
13.5 Ice sou					T do ului	<u><u> </u></u>	مصدر الثلج
	Ice plant:	Capacity [.]	kg/hr	كلغ/ساعة	ح القدرة · ك	مصنع الثلج	
Π		e crushed/blo					
	iteau jinau	e erusileu, ero			ن موردین تجاریین	فوالب/مبروش) م	جاهز (i
13.6 Ice box	xes for sale to	fishermen, J	processors	and househ	olds		1
				الاسماك، والمنار	،ي الأسماك، معالجو	رجه لبيعها لصياد	صداديق دا
13.7 Ice cru	shor	□ Yes □ Yes	نعم نعم		کلا No کلا No		كسارة ثلج
13.7 Ice cru 13.8 Power			<u>م</u> ء نع				مصدر الکهرباء
	Local Elect				كهرباء المحلية		
	Standby ala	otrical concre	ny ntor:	KUA CIA	حهربء المحلية بربائي: كيلو	سرے۔	
		whole Port		يوت ∧∨∧_	ہربائي:کل کل المر فأ		
		Fish Stalls			حل المرقا منالة المز اد		
		Recreation A	raa		حاله المراد ركز الترفيه		
		key facilities			ردر الدرقية الماكن الحيوية		
					رمادن الحيوية تعاونية و/أو النقابة		
	□ Other: specify				حدد	عيرهن	

13.9 Storage	نعم Yes 🗆	کلا № ⊔	مستودعات					
13.9.1 Size: m2		ن:منز مربع	المساحة					
13.9.2 Construction Mater	rial		مواد الإنشاء					
	اسمنت	□ Metal	حديد					
□ Wood	خشب	□ Container	مستوعب					
□ Other	غیر ها							
13.9.3 Roof			السقف					
□ Wood	خشب	□ Plastic	بلاستيك					
	اترنيت	□ Concrete	اسمنت					
	حديد	□ Other	غيرها					
13.9.4 Individual rooms for	fishermen:		غرف فردية للصيادين					
	نعم Yes	≥لا No						
13.9.4.1 Number of roor	ns:		عدد الغرف					
13.9.4.2 Size of each ro	om: m2	متر مربع	مساحة كل غرفة:					
13.10 Boat building/maintena	ance facility:		منشأة لبناء / صيانة الزوارق					
	نعم Yes 🗆	کلا No کلا						
13.11 Fishermen's cooperativ	نعم Yes 🗆 ve:	≥لا No کلا	مركز لتعاونية الصيادين					
13.11.1 Name of Cooper	ative:		اسم التعاونية					
13.11.2 Name & phone o	of president of Cooper	rative:	اسم وتلفون رئيس التعاونية					
13.12 Fishermen Syndicate:	مركز لنقابة الصيادين كلا No 🗆 نعم Yes 🗆 13.12 Fishermen Syndicate: 🛛 Yes							
13.12.1 Name of Syndica	اسم النقابة 13.12.1 Name of Syndicate							
اسم ورقم تلفون رئيس النقابة								

14 Elevated fresh water supply tanks;						رفوعة	خزانات مياه عذبة م
		🗆 Yes	نعم		کلا ۲۵		
14.1 Water res	ervoir:	cu.m				_م۳	خزان الماء:
	Concrete	اسمنت			Galvanized	غلفن (مز يبق) Steel ا	فو لاذ م
	Steel Drums	بر امیل حدید			Plastic (Fil	berglass/polyethyler نملاس/بولي انثيلين)	
14.2 Water Su	pply						مصدر المياه
	Municipal	شركة المياه			Borehole	بئر	
	Contractor	مقاول			Other	غیر ها	
14.3 Water Pu	mp	□ Yes	نعم			No کلا	مضخة المياه
14.3.1	Power: HP					حصان	قوتها:
14.3.2	Туре						النوع
	Electrical	كهربائية			Diesel	ديزل	
	Manual	يدوية			Other	غيرها	
14.4 Fittings &	& Accessories					ارات	تجهيزات و إكسسو
14.4.1	Filter	🗆 Yes 💡	نعم			کلا No	فلتر /مصفاة
14.4.2	Туре						النوع
	Steel (galvanize	فو لاذ مغلف (d			PVC	بلاسنيك (بي في سي)	
	Bronze	برونز			Other	غيرها	

15 Other facilities				منشئات أخرى
15.1 Fishermen's net store	🗆 Yes	نعم	کلا No کلا	متجر شباك الصيادين
15.2 Engine spares	□ Yes	نعم	کلا No کلا	قطع غيار للمحركات
15.3 Hawker stalls	🗆 Yes	نعم	کلا No کلا	أكشاك البائعين
15.4 Recreation/food facilities	🗆 Yes	نعم	کلا № □	أماكن الترفية والطعام
16 Flat area for net repair;	🗆 Yes	نعم	کلا № □	ساحة لإصلاح الشباك
17 Parking area	🗆 Yes	نعم	کلا No کلا	موقف سيارات
16.1 Parking area capacity:	vehicle	s	يارة	سعة موقف السيارات: س

18 Asphalted/Paved Roads			الطرقات المعبدة
O Internal			داخلية
O Access to Public Ro	oad Network		الوصول إلى شبكة الطرق ا
نعم Yes 🗆		⊔ No کلا	
19 Fishing Vessels Official Capacity:	vessels	وارق الصيد:زورق	قدرة المرفأ الرسمية لاستيعاب ز
1) Fishing Vessels Official Capacity.			
20 Number of fishing vessels at port:	vessels	المرفأ: زورق	عدد زوارق الصيد الموجودة في
			*
21 Security			الأمن
$21.1 \text{ Fence} \qquad \Box \text{ Yes}$	نعم	کلا N₀ ⊔	
21.2 Gate/Entrance \Box Yes		کلا No ک	بو ابة/مدخل
21.3 Police Station	1		سور بوابة/مدخل مركز لقوي الأمن الداخلي
□ Yes	نعم	کلا No کلا	
21.4 Army Post			مركز للجيش
	s نعم	کلا No کلا	
21.5 Army Intelligence Post			مركز للمخابرات
□ Yes	نعم	≥لا N₀ ⊇	مركز لأمن الدولة
21.6 State Security Post □ Yes	نعم	کلا No کلا	مركز لامن الدولة
	F -		
	· · · · ·		
22 Civil Defense Position	is نعم	کلا № □	مركز للدفاع المدني
23 Medical Emergency Center	s نعم	⊔ No کلا	the state is a
23.1 in port	, ~		مركز طوارئ طبي داخل المرفأ
23.2 outside port			خارج المرفأ
23.2.1 Proximity to Port:	km	فأ: كلم	قربه من المر
23.2.2 Name of Center		·	اسم المركز
			· · · ·
24 Communication Equipment	نعم Yes	کلا № □	أجهزة الاتصال
24.1 Type			
کس Telephone/Fax	تلفون/فاد	□ Cellular phone	تلفون خليوي
لکي Radio telephone	تلفون لاس	Telegraph	نلغر اف
لکي Radio VHF	جهاز لاس	□ Other	غيره
اعية Satellite radio	طة الأقمار الاصطن	جهاز لاسلكي بواس	
25 Navigation Equipment	Yes is i	کلا №	أجهزة الملاحة
25.1 Type			
Loran C	لوران C	Direction	محدد الاتجاه finder
	لوران A		
	اوميغا		رادار رادار
	ريپيد ديکا		
$\Box GPS$	-يــ جي بي اس		بر <u>ے درت</u> غیرہا
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