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COMMISSION OF THE EUROPEAN UNION

**DCF ECONOMIC DATA CALL 2011
COVERAGE AND QUALITY REPORT
AQUACULTURE INDUSTRY**

Prepared by JRC Fishreg data collection team

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1. SUMMARY

The 2011 call for economic data on the European Union (EU) Aquaculture Industry for EU Member States was the second economic data call to be requested under the EU Data Collection Framework (DCF) for fisheries. The data was requested under the frameworks of the Data Collection Regulation (DCR); cf. Council Regulation (European Commission (EC) No 2010/93/EU; and the Commission Decision 2008/949/EC. The data call requested data for the years 2008-2009.

The main objective of this report is to evaluate Member States compliance with the 2011 call for economic data on the aquaculture industry by providing an overview of the coverage and quality of the data submitted by each MS. The data collected was used by the JRC and STECF to produce the 2011 Annual Economic report on the EU aquaculture industry.

The main findings of this report are that all Member States complied with the data call. Land lock Member States were exempt from the regulation. Also the regulation only requires data on marine aquaculture. Therefore Belgium, Latvia and Lithuania did not report any aquaculture. Also some MS only reported the marine aquaculture according to regulation while some MS reported also their freshwater production.

In terms of completeness of the MS data submissions most countries submitted the majority of the parameters requested under the call. However, in several cases part of the data were not submitted which made an evaluation of the overall economic performance of the EU aquaculture sector impossible. In terms of data quality, there were some 'abnormal' estimates for various parameters detected by JRC and the experts and rectified by the Member States.

2. INTRODUCTION / BACKGROUND

The purpose of this report is to evaluate Member States compliance with the 2011 call for economic data on the EU Member States aquaculture industry. The data collected was used by the JRC and STECF to produce the report on Economic performance of the EU Aquaculture sector.

The data was requested under the frameworks of the Data Collection Regulation (DCR); cf. Council regulation (European Commission (EC) No 199/2008 of 25th February 2008). The 2011 call for economic data on aquaculture was the first time that it was requested. The data call requested data for the years 2008-2009.

To evaluate overall compliance, three aspects of the Member States data submissions were evaluated in this report: 1) timeliness of the submissions (did they comply within the deadline), 2) completeness (coverage) of the data submitted (were all parameters provided for all segments and all years requested), and 3) data quality and precision.

Section three of this report presents the contents of the data call that was issued to the Member States. Section four contains information relating to procedures undertaken by the JRC to evaluate the quality and coverage of the data submitted. Section five contains an overall evaluation of Member States compliance with the data call, while section six looks at the timeliness, quality and coverage of each Member States data submissions.

3. ECONOMIC DATA CALL CONTENTS

This was the first time aquaculture data was requested from Member states.

Tables 3.1 and 3.2, outline all the DCF economic variables to be submitted for the years 2008 and 2009, along with their corresponding aggregation levels. Table 3.1 describes all economic variable required in DCF. These variables were requested at segment level presented in the regulation. Also the quality indicators were requested by variable.

Table 3.2. describes the data requested relating to production. Both production value and volume were requested by segments. Also data on precision levels, sampling strategy and achieved sample size were requested.

All the various definitions for variables, aggregation levels, sampling strategies and precision levels can be found by navigating through the data collection website. <https://datacollection.jrc.ec.europa.eu/home>


Separate Excel upload files were needed for transmitting the DCF datasets. Upload templates were made available to download from the samples folder on the data collection website. Experts were advised that worksheet templates should not be altered before the uploading procedure.

The data call was issued by DG MARE on the 27 May 2011 with a 20 working day deadline. Thus the actual deadline varied by Member state between 23/6-28/6. The official data call letter can be found on the following link:

https://datacollection.jrc.ec.europa.eu/c/document_library/get_file?p_l_id=14718&folderId=136698&name=DLFE-10301.pdf


The data uploading facility on the data collection website was made available from the 27 May 2011.

Table 3.1 Requirements for 2008-2009 DCF data submission relating to economic variables on aquaculture.

Variable Group	Variable	Other fields	Sample
Income	Turnover	<ul style="list-style-type: none"> • Sample • Population • Year • Precision Level • Sampling Strategy • Achieved Sample Rate • Segmentation (see below) 	 dcf_Aqua ma_0809.xls
	Subsidies		
	Other Income		
	Total Income		
Personal Costs	Wages and salaries of staff		
	Imputed value of unpaid labour		
Energy Costs	Energy Costs		
Raw Material Costs	<ul style="list-style-type: none"> • Livestock costs • Feed costs 		
	<ul style="list-style-type: none"> • Repair and maintenance • Other operational Costs 		
Capital Costs	Depreciation of capital		
	Financial Costs, net		
Extraordinary Costs	Extraordinary Costs, net		
Capital Value	Total Value of Assets		
Net Investments	Net Investments		
Debt	Debt		
Raw Material Volume	<ul style="list-style-type: none"> • Livestock volume • Feed volume 		
	Total sales volume		
Employment	Number of person employed:		
	<ul style="list-style-type: none"> • Male employees • Female employees • Total employees 		

	<p>FTE National:</p> <ul style="list-style-type: none"> • Male FTE • Female FTE • FTE 		
Number of enterprises	<p>Number of enterprises:</p> <ul style="list-style-type: none"> • less or equal than 5 employees • 6-10 employees* • more or equal than 11 employees** 		

Table 3.2 Requirements for 2008-2009 DCF data submission relating to aquaculture production value and volume.

Field	Note	Sample
Species	It is preferable if you use the FAO codes to indicate the species.	 dcf Turnover Aqua.xls
Eur_Value	<u>Total Turnover</u> . The value is considered to be in Euro.	
Ton_Value	<u>Total sales</u> . The value is considered to be in Tonne.	
Segments	Value and Weight of the following segments (see below)	
...other fields	<ul style="list-style-type: none"> • Sample • Population • Sampling Strategy • Precision Level • Achieved Sample Rate • Year 	

Segmentation of the economic data

- Salmon Hatcheries & nurseries (seg1.1)
- Salmon on growing (seg1.2)
- Salmon combined (seg1.3)
- Salmon cages (seg1.4)
- Trout Hatcheries & nurseries (seg2.1)
- Trout on growing (seg2.2)
- Trout combined (seg2.3)
- Trout cages (seg2.4)
- Sea bass & Sea bream Hatcheries & nurseries (seg3.1)
- Sea bass & Sea bream on growing (seg3.2)
- Sea bass & Sea bream combined (seg3.3)
- Sea bass & Sea bream cages (seg3.4)
- Sea bass & Sea bream cages (seg3.4)
- Carp Hatcheries & nurseries (seg4.1)
- Carp on growing (seg4.2)
- Carp combined (seg4.3)
- Carp cages (seg4.4)
- Other freshwater fish Hatcheries & nurseries (seg5.1)
- Other freshwater fish on growing (seg5.2)
- Other freshwater fish combined (seg5.3)
- Other freshwater fish cages (seg5.4)
- Other marine fish Hatcheries & nurseries (seg6.1)
- Other marine fish on growing (seg6.2)
- Other marine fish combined (seg6.3)
- Other marine fish cages (seg6.4)
- Mussel rafts (seg7.1)
- Mussel Long line (seg7.2)
- Mussel Bottom (seg7.3)
- Mussel Other (seg7.4)
- Oyster rafts (seg8.1)
- Oyster Long line (seg8.2)
- Oyster Bottom (seg8.3)
- Oyster Other (seg8.4)
- Clam rafts (seg9.1)
- Clam Long line (seg9.2)
- Clam Bottom (seg9.3)
- Clam Other (seg9.4)
- Other shellfish rafts (seg10.1)
- Other shellfish Long line (seg10.2)
- Other shellfish Bottom (seg10.3)
- Other shellfish Other (seg10.4)

4. QUALITY AND COVERAGE CHECKING PROCEDURES

The analysis of the economic performance of the aquaculture sector in the EU is based on national statistics and data on the aquaculture sector collected under the Data Collection Framework (DCF) of the EU. This data was requested by the data call submitted on 27 May 2011. DCF requests MS also to provide information on the quality of the data. This data was requested as part of the data call. A number of data quality and coverage measures were carried out by JRC. Most of the quality checks were undertaken during the uploading. The overall quality of the data was evaluated by Expert working group.

4.1 Checks carried out during the uploading procedure (Syntactic checks)

During the data uploading procedure a number of automatic syntactic checks are carried out on the data before it is accepted. Member States are required to use specific Excel templates when uploading the data. The templates can be accessed on the following link: <https://datacollection.jrc.ec.europa.eu/library>

The syntactic checks are carried out without any specific knowledge of what the data contains or its meaning. They tell us if the data is present or not and in the correct format. These checks automatically reject data that do not confirm to specific restrictions, such as ensuring textual data is validated against defined parameters lists e.g. Species types, FAO code, country code etc. In addition, numeric data are checked to make sure they contain numbers and not strings. In the event of errors, a message is sent to the person uploading the data

Member States received immediate feedback when attempting to upload their data submissions. This helped Member States identify inconsistencies with their own data and to fix them without intervention from the data collection team. Intervention was generally only required on technical issues with the upload server, and more complex issues regarding the datasets.

These basic Syntactic quality checks and immediate feedback have contributed significantly to the overall improvement of the quality of the data submitted.

4.2 Checks carried out after the uploading procedure

Once the datasets were successfully uploaded by the Member States, JRC evaluated how well the data complies with the terms of the data call by checking the coverage and quality of the data. In case of abnormal or missing data the MS was contacted for clarification.

4.2.1 Against other official data sources checks

JRC and STECF economic working groups encourage MS to check the data to be submitted with other official data sources to ensure quality and homogeneity between the different sources. The main data sources for aquaculture data is FAO and EUROSTAT. Expert working group were asked to evaluate the possible inconsistencies in data from different sources. Divergences between data sources are discussed in section 6.

4.2.2 Coverage checks

For each Member State, checks are carried out to ensure that all the necessary data have been submitted. Reports are produced for each country that show whether a particular variable has been submitted or not. The JRC contacts the relevant Member States to query these results if required. The results of these checks are detailed in sections 5 and 6 of this report.

4.2.3 Quality checks (semantic checks)

JRC/STECF EWG carries out various checks to ensure the data being uploaded conforms to rational limits and boundaries. Most of these checks are performed manually, although some are fully or partially automated. These checks flag up 'suspicious' data values that need further investigation. All data that is flagged in this way are highlighted to the Member States who submitted the data.

5. OVERALL EVALUATION

The analysis of the economic performance of the aquaculture sector in the EU is based on national statistics and data on the aquaculture sector collected under the Data Collection Framework (DCF) of the EU. The data call was issued on the 27 May 2011 and the deadline for the submission was established as 20 working days. The data call requested data for the years 2008-2009.

The DCF data collection is only applicable to coastal Member States (22), so it is not applicable in the EU landlocked countries (Austria, Czech Republic, Hungary, Luxemburg and Slovakia). Eurostat estimates the aquaculture from these 5 countries to be less than 3% of the total EU aquaculture.

Under the DCF, the collection of fresh water species is not mandatory. So, Belgium, Latvia and Lithuania provided no data under the DCF because all their aquaculture production is freshwater based. The aquaculture production of these 3 countries is estimated by Eurostat to be less than 0.5 % of the total EU production.

Moreover, some Member States - Germany, Poland and Slovenia - submitted only marine aquaculture data, but not freshwater aquaculture. Missing freshwater aquaculture from these 3 countries accounted for 6 % of the EU aquaculture production.

However, when it comes to data compulsory to be submitted, all countries provided aquaculture data. But the degree of compliance varies among Member States. The main incompliances are:

- Failing to provide detailed data on the cost structure (and providing only basic data)
- Failing to provide data by segment (and only providing by totals)
- Underestimation of the national production

Some Member States (France, Greece, United Kingdom) have failed to provide detailed data on the cost structure. Other countries (United Kingdom) have failed to provide data by segment (and only providing by totals). Some countries submitted only data for 2009 (Poland, Romania). In some cases when data has been provided by segment, these data have not been enough to calculate the economic performance of each segment.

Finally, it should be stated that the figures provided by some Member States do not perfectly match with data published by Eurostat. It should be noticed that the comparison has been done between Eurostat production figure and DCF volume of sales. Both variables are different, but they should have similar values. However, Italy has only submitted data for a 20% of their national production.

5.1 Compliance

Timely submission of data with respect to the data call deadline is necessary given the timescales for the production of the report. The data call was issued on 27 May and Member States were given at least 20 working days in which to submit data. The deadline varied between 23-28 July depended on the national public holidays. The official data call was sent to Permanent Representations of the MS at the date. Apparently many countries failed to pass the call in time to National Correspondents. Therefore several countries failed to get the message and upload data due to the deadline.

Table 5.1 shows the uploading activity by each Member State with respect to the data call deadline. It presents the first and the last data submission.

13 MS manage to upload data before the estimated deadline of 28 of June. 5 MS failed that date and 3 did not submit any data stating that they did not have aquaculture production.

Where issues were found with the data, the Member States were asked to look again at their data, re-submitting where necessary. MS corrected the data and resubmitted when applicable. In some cases MS provided reasons that the data was correct. Some MS did not respond and the questions reminded open.

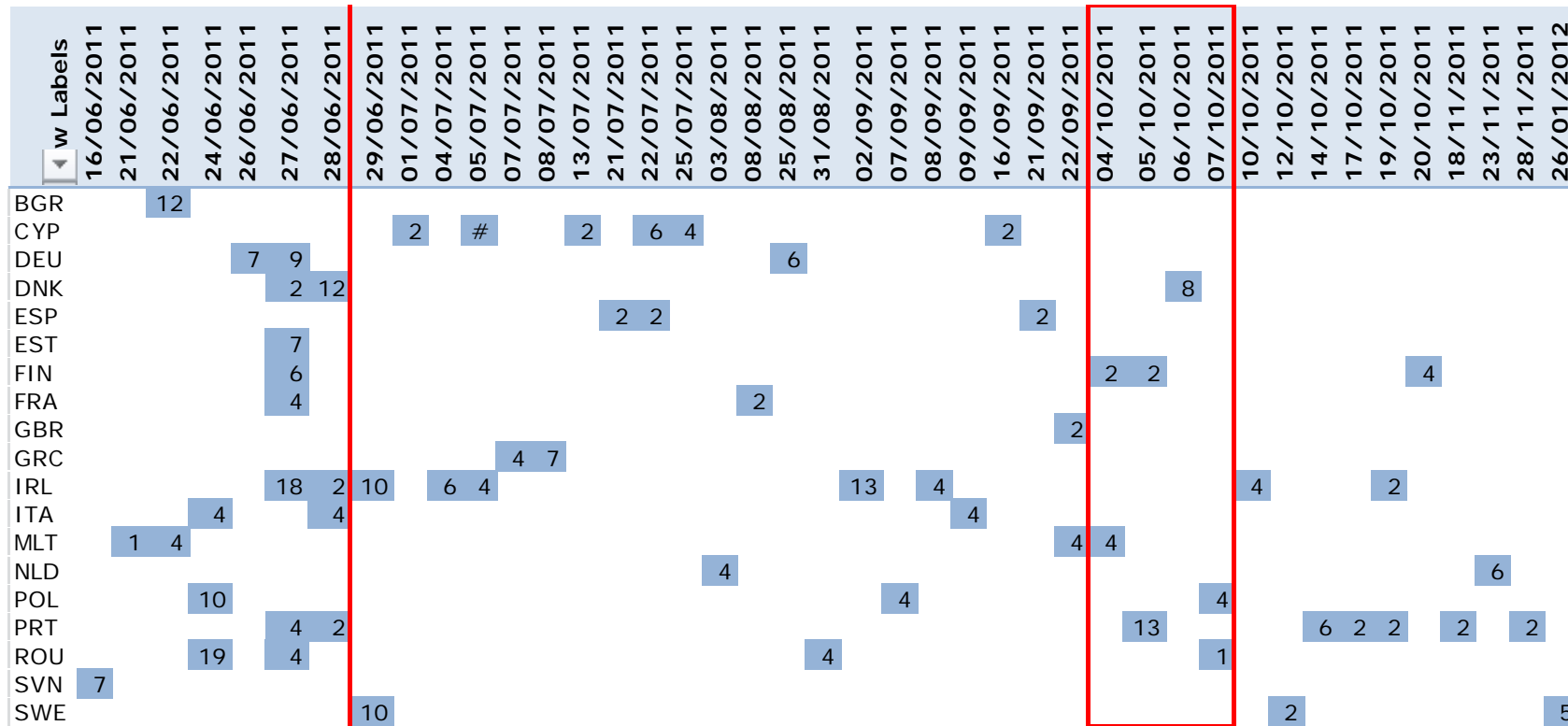
Most national experts found issues with the uploaded data that required rectifying. This led to further uploading activity during the following the meeting. The most recent uploading activity was carried out by Sweden on January 2012.

Table 5.1 Member States uploading activity in response to the 2011 call for economic data

country_name	first_date	last_date
Belgium		
Bulgaria	22 June 2011	22 June 2011
Cyprus	01 July 2011	16 September 2011
Denmark	27 June 2011	06 October 2011
Estonia	27 June 2011	27 June 2011
Finland	27 June 2011	20 October 2011
France	27 June 2011	08 August 2011
Germany	26 June 2011	25 August 2011
Greece	07 July 2011	08 July 2011
Ireland	27 June 2011	19 October 2011
Italy	24 June 2011	09 September 2011
Latvia		
Lithuania		
Malta	21 June 2011	04 October 2011
Netherlands	03 August 2011	23 November 2011
Poland	24 June 2011	07 October 2011
Portugal	27 June 2011	28 November 2011
Romania	24 June 2011	07 October 2011
Slovenia	16 June 2011	16 June 2011
Spain	21 July 2011	21 September 2011
Sweden	29 June 2011	26 January 2012
United Kingdom	22 September 2011	22 September 2011

The figure 5.1 below presents the uploading activity in detail.

Figure 5.1 Uploading activities by Member State. Blue box indicates uploading at that date by that country. Numbers indicate how many upload was carried out, including unsuccessful attempts.



Datacall deadline

Aquaculture report meeting

Table 5.2 Member States uploading: templates successfully upload (green); no upload of the template (red)

Aquaculture Data Call Upload Monitor Overview

Country	DCF		DCF TURNOVER	
	2008	2009	2008	2009
Belgium	Red	Red	Red	Red
Bulgaria	Green	Green	Green	Green
Cyprus	Green	Green	Green	Green
Denmark	Green	Green	Green	Green
Estonia	Green	Green	Green	Green
Finland	Green	Green	Green	Green
France	Green	Green	Green	Green
Germany	Green	Green	Green	Green
Greece	Green	Green	Green	Green
Ireland	Green	Green	Green	Green
Italy	Green	Green	Green	Green
Latvia	Red	Red	Red	Red
Lithuania	Red	Red	Red	Red
Malta	Green	Green	Green	Green
Netherlands	Green	Green	Green	Green
Poland	Green	Green	Green	Green
Portugal	Green	Green	Green	Green
Romania	Green	Green	Red	Green
Slovenia	Green	Green	Green	Green
Spain	Green	Green	Green	Green
Sweden	Green	Green	Green	Green
United Kingdom	Green	Green	Red	Red

Table 5.2 summarises the uploading by country. Belgium, Latvia and Lithuania did not submit any datasets. UK did not upload data on production volume and value by species. Romania provided this data only for 2009. Other countries submitted these data tables successfully.

Table 5.3 Summary of missing data

Country	Missing data
Belgium	No data
Bulgaria	
Cyprus	
Denmark	
Estonia	
Finland	
France	<ul style="list-style-type: none"> • All cost parameters • Value of assets • Net investments • Raw material volume: feed • Raw material volume: livestock
Germany	
Greece	<ul style="list-style-type: none"> • All cost parameters • Value of assets • Net investments • Employment in FTE and by gender • Raw material volume: feed • Raw material volume: livestock
Ireland	<ul style="list-style-type: none"> • Imputed value of unpaid labour for 2008 • Raw material volume: feed for 2008 •
Italy	<ul style="list-style-type: none"> • Employment in FTE • Employment in Male FTE • Employment in Female FTE • Number of enterprises
Latvia	<ul style="list-style-type: none"> • No data
Lithuania	<ul style="list-style-type: none"> • No data
Malta	
Netherlands	<ul style="list-style-type: none"> • Number of enterprises (2008/2009)
Poland	
Portugal	<ul style="list-style-type: none"> • Wages and salaries 2008 • Repair and maintenance 2008 • Debt 2008 • Depreciation 2008 • Financial costs 2008 • Extraordinary costs 2008 • Male FTE 2008 • Female FTE 2008 • FTE 2008 • Male employees 2008

	<ul style="list-style-type: none"> • Female employees 2008 • Total assets 2008 • Net investments 2008 •
Romania	<ul style="list-style-type: none"> • All economic data for 2008
Slovenia	
Spain	<ul style="list-style-type: none"> • Production value by species and segments (2008-2009)
Sweden	
United Kingdom	<ul style="list-style-type: none"> • Energy costs 2008-2009 • Raw material costs 2008-2009 • Repair and maintenance 2008-2009 • Debt 2008-2009 • Depreciation 2008-2009 • Financial costs 2008-2009 • Extraordinary costs 2008-2009 • FTE by gender 2008-2009 • Employment by gender 2008-2009 • Net investments 2008-2009 • Raw material volume 2008-2009 • Total sales volume 2008-2009 • All production parameters 2008-2009

Table 5.3 highlights the missing data with each Member State. 11 countries provided all data at the required level. 9 countries had at least a minor issue in their datasets while the data for some countries did not allow the proper analysis of the sector. These issues are discussed in detail by country on chapter 6.

6. COUNTRY BY COUNTRY EVALUATION OF COMPLIANCE

In this section, a more in-depth analysis of the data coverage and quality issues relating to each country is provided.

6.1 Belgium

6.1.1 Delivery of data

Most of the aquaculture in Belgium is freshwater. Belgium reported to have only 3 marine aquaculture firms. And since under the DCF, the collection of fresh water species is not mandatory, Belgium provided no data based on confidentiality.

6.1.2 Coverage

Not applicable

6.1.3 Quality

Not applicable

6.2 Bulgaria

6.1.1 Delivery of data

Bulgaria submitted all datasets within the deadline.

Table 6.2.1: Date of uploads for Bulgaria

date	country_code	template	status
22/06/2011 10:06	BGR	DCF_AQUA_MA_2008	ERROR
22/06/2011 10:10	BGR	DCF_AQUA_MA_2008	ERROR
22/06/2011 10:13	BGR	DCF_AQUA_MA_2008	ERROR
22/06/2011 10:17	BGR	DCF_TURNOVER_SALES_2008	ERROR
22/06/2011 10:20	BGR	DCF_TURNOVER_SALES_2008	SUCCESS
22/06/2011 10:20	BGR	DCF_TURNOVER_SALES_2009	SUCCESS
22/06/2011 10:24	BGR	DCF_AQUA_MA_2008	ERROR
22/06/2011 10:29	BGR	DCF_AQUA_MA_2008	ERROR
22/06/2011 10:31	BGR	DCF_AQUA_MA_2008	ERROR
22/06/2011 10:33	BGR	DCF_AQUA_MA_2008	ERROR
22/06/2011 10:35	BGR	DCF_AQUA_MA_2008	SUCCESS
22/06/2011 10:35	BGR	DCF_AQUA_MA_2009	SUCCESS

6.1.2 Coverage

Bulgaria provided all variables requested for the total national production data in time. However only a few data (turnover, livestock costs, livestock volume and total sales volume) was disaggregated by segments for 2008 and 2009. The turnover and weight of the species was not reported disaggregated by segment.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for years, were not estimated due to missing/erroneous data:

- None

6.1.3 Quality

The quality of the data was not evaluated in the expert working group.

6.2 Cyprus

6.2.1 Delivery of data

Cyprus provided all variables. The first data submission was done 1/7 after the deadline. Following the quality checks carried out and communication with national authorities there were several data re-submissions.

Table 6.2.1: Date of uploads for Cyprus

date	country_code	template	status
01/07/2011 16:28	CYP	DCF_TURNOVER_SALES_2008	ERROR
01/07/2011 16:45	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:04	CYP	DCF_AQUA_MA_2008	SUCCESS
05/07/2011 12:04	CYP	DCF_AQUA_MA_2009	ERROR
05/07/2011 12:07	CYP	DCF_AQUA_MA_2008	SUCCESS
05/07/2011 12:07	CYP	DCF_AQUA_MA_2009	SUCCESS
05/07/2011 12:24	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:33	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:40	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:51	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:54	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:55	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:56	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
05/07/2011 12:56	CYP	DCF_TURNOVER_SALES_2009	ERROR
05/07/2011 12:57	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
05/07/2011 12:57	CYP	DCF_TURNOVER_SALES_2009	ERROR
05/07/2011 13:00	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
05/07/2011 13:00	CYP	DCF_TURNOVER_SALES_2009	ERROR
13/07/2011 11:36	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
13/07/2011 11:36	CYP	DCF_TURNOVER_SALES_2009	SUCCESS
22/07/2011 13:35	CYP	DCF_AQUA_MA_2008	ERROR
22/07/2011 13:36	CYP	DCF_AQUA_MA_2008	SUCCESS
22/07/2011 13:36	CYP	DCF_AQUA_MA_2009	ERROR
22/07/2011 13:41	CYP	DCF_AQUA_MA_2008	ERROR
22/07/2011 13:43	CYP	DCF_AQUA_MA_2008	SUCCESS
22/07/2011 13:43	CYP	DCF_AQUA_MA_2009	SUCCESS
25/07/2011 12:34	CYP	DCF_TURNOVER_SALES_2008	ERROR
25/07/2011 12:37	CYP	DCF_TURNOVER_SALES_2008	ERROR
25/07/2011 12:38	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
25/07/2011 12:38	CYP	DCF_TURNOVER_SALES_2009	SUCCESS
16/09/2011 14:28	CYP	DCF_AQUA_MA_2008	SUCCESS
16/09/2011 14:28	CYP	DCF_AQUA_MA_2009	SUCCESS

6.2.2 Coverage

Cyprus provided all economic variables at the national level. However due to a low number of firms only production volume and value was provided by segments.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for years, were not estimated due to missing/erroneous data:

- None

6.2.3 Quality

The quality of the data was not evaluated in the expert working group.

6.3 Denmark

6.3.1 Delivery of data

All datasets requested were uploaded before the data call deadline. There were several re-submissions. The last upload taking place on the 6/10 2011, see table 6.3.1.

Table 6.3.1: Date of uploads for Denmark

date	country_code	template	status
27/06/2011 17:10	DNK	DCF_AQUA_MA_2008	ERROR
27/06/2011 17:14	DNK	DCF_TURNOVER_SALES_2008	ERROR
28/06/2011 07:47	DNK	DCF_AQUA_MA_2008	ERROR
28/06/2011 07:54	DNK	DCF_AQUA_MA_2008	ERROR
28/06/2011 07:54	DNK	DCF_TURNOVER_SALES_2008	ERROR
28/06/2011 07:59	DNK	DCF_TURNOVER_SALES_2008	SUCCESS
28/06/2011 07:59	DNK	DCF_TURNOVER_SALES_2009	SUCCESS
28/06/2011 08:12	DNK	DCF_AQUA_MA_2008	ERROR
28/06/2011 08:18	DNK	DCF_AQUA_MA_2008	SUCCESS
28/06/2011 08:18	DNK	DCF_AQUA_MA_2009	ERROR
28/06/2011 08:21	DNK	DCF_AQUA_MA_2008	SUCCESS
28/06/2011 08:21	DNK	DCF_AQUA_MA_2009	SUCCESS
28/06/2011 08:43	DNK	DCF_AQUA_MA_2008	SUCCESS
28/06/2011 08:43	DNK	DCF_AQUA_MA_2009	SUCCESS
06/10/2011 10:34	DNK	DCF_AQUA_MA_2008	SUCCESS
06/10/2011 10:34	DNK	DCF_AQUA_MA_2009	SUCCESS
06/10/2011 10:46	DNK	DCF_TURNOVER_SALES_2008	SUCCESS
06/10/2011 10:46	DNK	DCF_TURNOVER_SALES_2009	SUCCESS
06/10/2011 11:27	DNK	DCF_AQUA_MA_2008	SUCCESS
06/10/2011 11:27	DNK	DCF_AQUA_MA_2009	SUCCESS
06/10/2011 11:31	DNK	DCF_AQUA_MA_2008	SUCCESS
06/10/2011 11:31	DNK	DCF_AQUA_MA_2009	SUCCESS

6.3.2 Coverage

The data covered all parameters and was given at the segment level. However there were some confidentiality issues regarding small segments.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for years, were not estimated due to missing/erroneous data:

- None

6.3.3 Quality

The account statistic for 2009 is based on a sample of 153 aquaculture farms, which covers 56 % of the total population of 272 farms. The sample covers 76 % of the total sales value of the population. Furthermore, data on sales volume and value, purchase of livestock raw material of fish are available for all farms.

The Danish Directorate of Fisheries has registered the total population of farms and enterprises engaged in aquaculture production in Denmark. It is mandatory for all aquaculture producers in Denmark to report the production in volume and value each year at the farm level. Furthermore, the species produced and the technique used in the production is reported. The data for The Danish Account Statistics for Aquaculture is collected by Statistics Denmark. The collection is based on the total population of farms provided by The Danish Directorate of Fisheries.

6.4 Estonia

6.4.1 Delivery of data

All requested datasets under the DCF were submitted in time.

Table 6.4.1: Date of uploads for Estonia

date	country_code	template	status
27/06/2011 15:34	EST	DCF_AQUA_MA_2008	ERROR
27/06/2011 15:46	EST	DCF_AQUA_MA_2008	SUCCESS
27/06/2011 15:46	EST	DCF_AQUA_MA_2009	SUCCESS
27/06/2011 15:46	EST	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 15:48	EST	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 15:49	EST	DCF_TURNOVER_SALES_2008	SUCCESS
27/06/2011 15:49	EST	DCF_TURNOVER_SALES_2009	SUCCESS

6.4.2 Coverage

Estonian data covered all parameters (by total and by segment) for 2008 and 2009.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for years, were not estimated due to missing/erroneous data:

- None

6.4.3 Quality

Due to the small number of commercial fish farming companies it was reasonable to collect data only concerning rainbow trout, concerning other species the value of production was too small to justify any sampling activities. There was also a threat to confidentiality. That is a reason why DCF and EUROSTAT data may be different. The data were collected through the questionnaires by Estonian Marine Institute and then compared with the data in the financial statements.

6.5 Finland

6.5.1 Delivery of data

All Finnish data sheets were uploaded before the data call deadline. Following the data checking procedure, data was changed and resubmitted after the working group meeting, see table 6.5.1.

Table 6.5.1: Date of uploads for Finland

date	country_code	template	status
27/06/2011 20:04	FIN	DCF_AQUA_MA_2008	ERROR
27/06/2011 20:12	FIN	DCF_AQUA_MA_2008	ERROR
27/06/2011 20:16	FIN	DCF_AQUA_MA_2008	SUCCESS
27/06/2011 20:16	FIN	DCF_AQUA_MA_2009	SUCCESS
27/06/2011 20:23	FIN	DCF_TURNOVER_SALES_2008	SUCCESS
27/06/2011 20:23	FIN	DCF_TURNOVER_SALES_2009	SUCCESS
04/10/2011 09:24	FIN	DCF_AQUA_MA_2008	SUCCESS
04/10/2011 09:24	FIN	DCF_AQUA_MA_2009	SUCCESS
05/10/2011 15:19	FIN	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 15:19	FIN	DCF_AQUA_MA_2009	SUCCESS
20/10/2011 16:44	FIN	DCF_AQUA_MA_2008	SUCCESS
20/10/2011 16:44	FIN	DCF_AQUA_MA_2009	SUCCESS
20/10/2011 16:45	FIN	DCF_TURNOVER_SALES_2008	SUCCESS
20/10/2011 16:45	FIN	DCF_TURNOVER_SALES_2009	SUCCESS

6.5.2 Coverage

The data submitted covered all parameters and was provided at segment level.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- None

6.5.3 Quality

Economic data collection of aquaculture sector in Finland combines information from different data sources. Main sources are production survey, Structural Business Statistics of Statistic Finland (SF) and account survey conducted by FGFRI. Financial statements were available for all firms in Business Register

having aquaculture as the main activity. This register gives full coverage in number of firms.

Primary sources of financial statements data in Statistics Finland are direct inquiries and business taxation material supplemented by Business Register data. Data is based on corporate balance sheet and profit and loss account data. Statistics Finland checks for the validity of the data. Any missing data was estimated within stratum. Account data was surveyed by FGFRI by stratified survey to detect the detailed cost structure of fish farms. Cost and earnings estimates were done by design-based and model assisted regression and ratio estimation. The cost variables were estimated with ratio estimation from financial statements. Production survey was collected exhaustively from the producers. Any missing information was estimated by stratum.

There is a difference between EUROSTAT data and DCF data as the aquaculture production data of Finland in EUROSTAT includes only food fish production and no juvenile or fry production. In addition the production volume in EUROSTAT includes all aquaculture food fish production in Finland and not only the companies having aquaculture as their main activity. On the other hand, the aquaculture production data in this report includes both food fish production and the juvenile and fry production. And it includes only companies having aquaculture as their main activity.

6.6 France

6.6.1 Delivery of data

France uploaded all requested datasets in time for the deadline. However there was an error in uploading of production templates and these were resubmitted successfully later.

Table 6.6.1: Date of uploads for France

date	country_code	template	status
27/06/2011 17:10	FRA	DCF_AQUA_MA_2008	SUCCESS
27/06/2011 17:10	FRA	DCF_AQUA_MA_2009	SUCCESS
27/06/2011 17:11	FRA	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 18:08	FRA	DCF_TURNOVER_SALES_2008	ERROR
08/08/2011 14:07	FRA	DCF_TURNOVER_SALES_2008	SUCCESS
08/08/2011 14:07	FRA	DCF_TURNOVER_SALES_2009	SUCCESS

6.6.2 Coverage

The production data was provided by species and at the segment level. However most of the economic data was missing. Turnover was provided but there were no cost parameters. Also raw material parameters were missing.

For DCF data, the following parameters were not submitted:

- All cost parameters
- Value of assets
- Net investments
- Raw material volume: feed
- Raw material volume: livestock

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- ROI 2008/2009
- Gross value added 2008/2009
- EBIT 2008/2009
- Subsidies 2008/2009
- Labour productivity 2008/2009
- Capital productivity 2008/2009
- Annual average salary

- Running costs to turnover ratio
- EBIT to turnover ratio

6.6.3 Quality

There was no expert evaluation carried out in the expert working group for the French data. However there were no data to evaluate the economic performance of the sector.

6.7 Germany

6.7.1 Delivery of data

All the requested data sets were uploaded before the data call deadline. Following checks by the JRC, a number of datasets were resubmitted before the meeting, see table 6.7.1.

Table 6.7.1: Date of uploads for Germany

date	country_code	template	status
26/06/2011 18:05	DEU	DCF_AQUA_MA_2008	SUCCESS
26/06/2011 18:05	DEU	DCF_AQUA_MA_2009	SUCCESS
26/06/2011 23:49	DEU	DCF_AQUA_MA_2008	ERROR
26/06/2011 23:51	DEU	DCF_AQUA_MA_2008	SUCCESS
26/06/2011 23:51	DEU	DCF_AQUA_MA_2009	ERROR
26/06/2011 23:51	DEU	DCF_AQUA_MA_2008	SUCCESS
26/06/2011 23:51	DEU	DCF_AQUA_MA_2009	SUCCESS
27/06/2011 16:19	DEU	DCF_AQUA_MA_2008	ERROR
27/06/2011 16:21	DEU	DCF_AQUA_MA_2008	SUCCESS
27/06/2011 16:21	DEU	DCF_AQUA_MA_2009	SUCCESS
27/06/2011 16:23	DEU	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 16:26	DEU	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 16:28	DEU	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 16:35	DEU	DCF_AQUA_MA_2008	ERROR
27/06/2011 16:36	DEU	DCF_TURNOVER_SALES_2008	SUCCESS
27/06/2011 16:36	DEU	DCF_TURNOVER_SALES_2009	SUCCESS
25/08/2011 09:13	DEU	DCF_TURNOVER_SALES_2008	ERROR
25/08/2011 09:16	DEU	DCF_TURNOVER_SALES_2008	ERROR
25/08/2011 09:17	DEU	DCF_TURNOVER_SALES_2008	SUCCESS
25/08/2011 09:17	DEU	DCF_TURNOVER_SALES_2009	SUCCESS
25/08/2011 09:17	DEU	DCF_AQUA_MA_2008	SUCCESS
25/08/2011 09:17	DEU	DCF_AQUA_MA_2009	SUCCESS

6.7.2 Coverage

German data covered only marine aquaculture. Due to the confidentiality no data was provided for the oyster production. The data was provided for the blue mussel segment. Data covered all economic parameters.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- None

6.7.3 Quality

The data quality is increasing as the mussel fishers are being more and more willing to support the data collection. This is not at least due to good personal contacts between the scientist collecting the data and the fisherman representatives. It takes some years with several face-to-face contacts to build up trust, especially as really sensitive and normally confidential data are collected. So even if especially the salary data seem to be questionable the overall data quality may be described as quite well and as the sector is quite small, further improvement in data quality could be expected.

6.8 Greece

6.8.1 Delivery of data

Greece submitted all requested datasets almost after the deadline.

Table 6.8.1: Date of uploads for Greece

date	country_code	template	status
07/07/2011 12:46	GRC	DCF_TURNOVER_SALES_2008	ERROR
07/07/2011 12:47	GRC	DCF_AQUA_MA_2008	ERROR
07/07/2011 12:54	GRC	DCF_AQUA_MA_2008	ERROR
07/07/2011 13:10	GRC	DCF_AQUA_MA_2008	ERROR
08/07/2011 13:08	GRC	DCF_AQUA_MA_2008	SUCCESS
08/07/2011 13:08	GRC	DCF_AQUA_MA_2009	ERROR
08/07/2011 13:13	GRC	DCF_AQUA_MA_2008	SUCCESS
08/07/2011 13:13	GRC	DCF_AQUA_MA_2009	SUCCESS
08/07/2011 13:26	GRC	DCF_TURNOVER_SALES_2008	ERROR
08/07/2011 13:28	GRC	DCF_TURNOVER_SALES_2008	SUCCESS
08/07/2011 13:28	GRC	DCF_TURNOVER_SALES_2009	SUCCESS

6.8.2 Coverage

The production data was provided by species and segments. However most of the economic data was missing. Turnover and subsidies were provided but there were no cost parameters. Also raw material parameters were missing.

For DCF data, the following parameters were not submitted:

- All cost parameters
- Value of assets
- Net investments
- Employment in FTE and by gender
- Raw material volume: feed
- Raw material volume: livestock

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- FTE
- ROI 2008/2009
- Gross value added 2008/2009
- EBIT 2008/2009
- Labour productivity 2008/2009
- Capital productivity 2008/2009
- Annual average salary

- Running costs to turnover ratio
- EBIT to turnover ratio

Data issues:

Official Greek data is often criticised for under-reporting aquaculture production and value for seabream and seabass while lately over-reporting production and value of “new farmed marine species”. This is an effect of the licensing scheme followed by the Greek public administration. In 2009, a new decision came into force which allows companies to culture Mediterranean finfish rather than specifying the exact species to be cultured. This new licensing scheme is likely to improve the quality of the Greek data. Nevertheless, maximum volume of production yet included in the licensing scheme remains a source of error in the official data. For these reasons, Greek data presented in this report is likely to be biased for aquaculture production and value of marine finfish.

There exist differences between the data presented in this report and data available from Eurostat database with regard to production volume for Greece, mainly for 2009.

Economic data is publicly available mostly for medium and large sized companies in Greece. Very small and small personal companies are not obliged by law to compile and publish annual financial statements thus economic data is not always available. As the vast majority of Greek shellfish aquaculture is consisted of very small and small companies, economic data is not publicly available.

Greek did not provide any data to evaluate the economic performance of the sector.

6.9 Ireland

6.9.1 Delivery of data

Ireland submitted all the requested datasets in time to meet the deadline. Following JRC quality checking procedures and dialogue with the Irish authorities some data was adjusted and datasets re-submitted before and after meeting in October, see table 6.9.1.

Table 6.9.1: Date of uploads for Ireland

Date	country_code	template	status
27/06/2011 18:43	IRL	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 18:51	IRL	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 19:01	IRL	DCF_AQUA_MA_2008	ERROR
27/06/2011 19:05	IRL	DCF_AQUA_MA_2008	ERROR
27/06/2011 19:20	IRL	DCF_AQUA_MA_2008	ERROR
27/06/2011 19:26	IRL	DCF_AQUA_MA_2008	ERROR
27/06/2011 19:38	IRL	DCF_AQUA_MA_2008	SUCCESS
27/06/2011 19:38	IRL	DCF_AQUA_MA_2009	ERROR
27/06/2011 19:41	IRL	DCF_AQUA_MA_2008	SUCCESS
27/06/2011 19:41	IRL	DCF_AQUA_MA_2009	SUCCESS
27/06/2011 19:43	IRL	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 20:01	IRL	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 20:08	IRL	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 20:11	IRL	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 20:12	IRL	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 20:15	IRL	DCF_TURNOVER_SALES_2008	ERROR
27/06/2011 20:16	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
27/06/2011 20:16	IRL	DCF_TURNOVER_SALES_2009	ERROR
28/06/2011 11:22	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
28/06/2011 11:22	IRL	DCF_TURNOVER_SALES_2009	ERROR
29/06/2011 11:36	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
29/06/2011 11:36	IRL	DCF_TURNOVER_SALES_2009	ERROR
29/06/2011 11:47	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
29/06/2011 11:47	IRL	DCF_TURNOVER_SALES_2009	ERROR
29/06/2011 11:50	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
29/06/2011 11:50	IRL	DCF_TURNOVER_SALES_2009	ERROR
29/06/2011 11:51	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
29/06/2011 11:51	IRL	DCF_TURNOVER_SALES_2009	ERROR
29/06/2011 11:51	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
29/06/2011 11:51	IRL	DCF_TURNOVER_SALES_2009	ERROR
04/07/2011 11:37	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
04/07/2011 11:37	IRL	DCF_TURNOVER_SALES_2009	ERROR

04/07/2011 11:39	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
04/07/2011 11:39	IRL	DCF_TURNOVER_SALES_2009	ERROR
04/07/2011 16:43	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
04/07/2011 16:43	IRL	DCF_TURNOVER_SALES_2009	ERROR
05/07/2011 16:49	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
05/07/2011 16:49	IRL	DCF_TURNOVER_SALES_2009	ERROR
05/07/2011 16:57	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
05/07/2011 16:57	IRL	DCF_TURNOVER_SALES_2009	SUCCESS
02/09/2011 16:07	IRL	DCF_AQUA_MA_2008	ERROR
02/09/2011 16:15	IRL	DCF_AQUA_MA_2008	ERROR
02/09/2011 16:18	IRL	DCF_AQUA_MA_2008	ERROR
02/09/2011 16:19	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
02/09/2011 16:19	IRL	DCF_TURNOVER_SALES_2009	ERROR
02/09/2011 16:23	IRL	DCF_AQUA_MA_2008	ERROR
02/09/2011 16:25	IRL	DCF_AQUA_MA_2008	ERROR
02/09/2011 16:30	IRL	DCF_AQUA_MA_2008	ERROR
02/09/2011 16:45	IRL	DCF_AQUA_MA_2008	ERROR
02/09/2011 16:51	IRL	DCF_AQUA_MA_2008	SUCCESS
02/09/2011 16:51	IRL	DCF_AQUA_MA_2009	SUCCESS
02/09/2011 16:51	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
02/09/2011 16:51	IRL	DCF_TURNOVER_SALES_2009	SUCCESS
08/09/2011 11:33	IRL	DCF_AQUA_MA_2008	SUCCESS
08/09/2011 11:33	IRL	DCF_AQUA_MA_2009	SUCCESS
08/09/2011 11:36	IRL	DCF_TURNOVER_SALES_2008	SUCCESS
08/09/2011 11:36	IRL	DCF_TURNOVER_SALES_2009	SUCCESS
10/10/2011 16:25	IRL	DCF_AQUA_MA_2008	SUCCESS
10/10/2011 16:25	IRL	DCF_AQUA_MA_2009	ERROR
10/10/2011 16:29	IRL	DCF_AQUA_MA_2008	SUCCESS
10/10/2011 16:29	IRL	DCF_AQUA_MA_2009	SUCCESS
19/10/2011 11:51	IRL	DCF_AQUA_MA_2008	SUCCESS
19/10/2011 11:51	IRL	DCF_AQUA_MA_2009	SUCCESS

6.9.2 Coverage

The data covered majority of the parameters needed and it was submitted at the segment level. However some parameters were missing.

For DCF data, the following parameters were not submitted:

- Imputed value of unpaid labour for 2008
- Raw material volume: feed for 2008

The following main indicators, for the years, were not estimated due to missing/erroneous data:

None

6.10.2 Quality

There was no expert evaluation carried out in the expert working group for the Irish data.

6.10 Italy

6.10.1 Delivery of data

Italy submitted all the requested datasets in time to meet the deadline. Following JRC quality checking procedures and dialogue with the Italian authorities some data was adjusted and datasets re-submitted, see table 6.10.1

Table 6.10.1: Date of uploads for Italy

Date	country_code	template	status
24/06/2011 10:49	ITA	DCF_AQUA_MA_2008	SUCCESS
24/06/2011 10:51	ITA	DCF_AQUA_MA_2009	SUCCESS
24/06/2011 10:52	ITA	DCF_TURNOVER_SALES_2008	SUCCESS
24/06/2011 10:53	ITA	DCF_TURNOVER_SALES_2009	SUCCESS
28/06/2011 17:13	ITA	DCF_AQUA_MA_2008	SUCCESS
28/06/2011 17:13	ITA	DCF_AQUA_MA_2009	SUCCESS
28/06/2011 17:13	ITA	DCF_TURNOVER_SALES_2008	SUCCESS
28/06/2011 17:13	ITA	DCF_TURNOVER_SALES_2009	SUCCESS
09/09/2011 10:13	ITA	DCF_AQUA_MA_2008	SUCCESS
09/09/2011 10:13	ITA	DCF_AQUA_MA_2009	SUCCESS
09/09/2011 10:13	ITA	DCF_TURNOVER_SALES_2008	SUCCESS
09/09/2011 10:13	ITA	DCF_TURNOVER_SALES_2009	SUCCESS

6.10.2 Coverage

The data covered most of the parameters and was provided by segments. Employment in FTE and number of companies were missing

For DCF data, the following parameters were not submitted:

- Employment in FTE
- Employment in Male FTE
- Employment in Female FTE
- Number of enterprises

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- Number of enterprises
- FTE

6.10.3 Quality

The segmentation of the population of the DCF is based on the elaboration of data from a census which considered all installations present in all companies which in some way are involved in the aquaculture sector. The sample size for the stratified universe (as is that of the set of fish farms) has been determined using the Bethel algorithm. The criteria of the coefficient of variation, that is to say the variability of the phenomenon being studied, are the most important criteria in determining the quality of the survey. The higher that variability is (that is to say, the standard deviation), the greater the sample size must be to obtain a pre-determined level of coefficient of variation. The sampling error is reduced by setting the sample to certain levels that ensure a certain precision of the estimate. In order to solve the problem, the data is obtained through the Bethel criterion (1989), which is a generalization for a stratified sample of the Neyman criterion. This means that for every strata (main farming technique and species), the number of sampling units required to obtain estimates, with a given level of the coefficient of variation, has been calculated (in this case, 10 % for the volume and value of production for the main species).

Italian aquaculture production reported under the DCF appears to be an underestimate, especially when comparing the 32,458 tons submitted for 2009, with the 162,325 tons reported as production by EUROSTAT and the 162,315 tons reported by FAO. So Italy reported only a 20% of their total production. In terms of employees, the wage and salary in 2009 strongly decreased, but the total number of employees more than doubled. An important grey area in the DCF is represented by “unpaid labour” and the harmonization in the estimation of full time equivalent (FTE): two important items that have strong relevance in socio-economic analysis.

6.11 Latvia

6.11.1 Delivery of data

Latvia did not submit any data because they do not have marine aquaculture production.

6.11.2 Coverage

Not applicable

For DCF data, the following parameters were not submitted:

Not applicable

The following main indicators, for the years, were not estimated due to missing/erroneous data:

Not applicable

6.11.3 Quality

Not applicable

6.12 Lithuania

6.12.1 Delivery of data

Lithuania did not submit any data because they do not have marine aquaculture production.

6.12.2 Coverage

Not applicable

For DCF data, the following parameters were not submitted:

Not applicable

The following main indicators, for the years, were not estimated due to missing/erroneous data:

Not applicable

6.12.3 Quality

Not applicable

6.13 Malta

6.13.1 Delivery of data

All datasets were submitted before the data call deadline. Following JRC quality checking procedures and dialogue with the Maltese authorities some data was adjusted and datasets re-submitted, see table 6.13.1.

Table 6.13.1: Date of uploads for Malta

date	country_code	template	status
21/06/2011 12:17	MLT	DCF_AQUA_MA_2008	ERROR
22/06/2011 08:43	MLT	DCF_AQUA_MA_2008	SUCCESS
22/06/2011 08:43	MLT	DCF_AQUA_MA_2009	SUCCESS
22/06/2011 08:44	MLT	DCF_TURNOVER_SALES_2008	SUCCESS
22/06/2011 08:44	MLT	DCF_TURNOVER_SALES_2009	SUCCESS
22/09/2011 12:11	MLT	DCF_AQUA_MA_2008	SUCCESS
22/09/2011 12:11	MLT	DCF_AQUA_MA_2009	SUCCESS
22/09/2011 12:11	MLT	DCF_TURNOVER_SALES_2008	SUCCESS
22/09/2011 12:11	MLT	DCF_TURNOVER_SALES_2009	SUCCESS
04/10/2011 16:10	MLT	DCF_TURNOVER_SALES_2008	SUCCESS
04/10/2011 16:10	MLT	DCF_TURNOVER_SALES_2009	SUCCESS
04/10/2011 16:11	MLT	DCF_AQUA_MA_2008	SUCCESS
04/10/2011 16:11	MLT	DCF_AQUA_MA_2009	SUCCESS

6.13.2 Coverage

Data covered all the parameters required and was provided by segments.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- None

6.13.3 Quality

During the year 2009 the aquaculture sector comprised of only 6 companies, a census was conducted to collect the data required. Direct interviews based on questionnaires were used to gather all the data needed and company accounts were used as data sources. The response rate was equal to 100 %. For these reasons, the data is considered to be of high quality.

Due to the small market size in terms of number of companies, data confidentiality can be an issue. Since one of the two main segments (Sea bass and sea bream cages - segment 3.4) is made up of one company, only data with regards to the other main segment (Other marine fish cages – segment 6.4) made up of 5 companies has been presented and commented upon in this chapter.

6.14 The Netherlands

6.14.1 Delivery of data

The Netherlands data was submitted after the deadline.

Table 6.14.1: Date of uploads for the Netherlands

date	country_code	template	status
03/08/2011 16:59	NLD	DCF_TURNOVER_SALES_2008	SUCCESS
03/08/2011 16:59	NLD	DCF_TURNOVER_SALES_2009	SUCCESS
03/08/2011 17:00	NLD	DCF_AQUA_MA_2008	SUCCESS
03/08/2011 17:00	NLD	DCF_AQUA_MA_2009	SUCCESS
23/11/2011 14:15	NLD	DCF_AQUA_MA_2008	SUCCESS
23/11/2011 14:15	NLD	DCF_AQUA_MA_2009	SUCCESS
23/11/2011 14:16	NLD	DCF_TURNOVER_SALES_2008	SUCCESS
23/11/2011 14:16	NLD	DCF_TURNOVER_SALES_2009	SUCCESS
23/11/2011 17:37	NLD	DCF_AQUA_MA_2008	SUCCESS
23/11/2011 17:37	NLD	DCF_AQUA_MA_2009	SUCCESS

6.14.2 Coverage

The Netherlands provided all data (by total and by segment) for 2008 and 2009. Only number of companies is missing (but it was estimated to be around 75 in 2009). Species turnover and weight were reported disaggregated by segment.

For DCF data, the following parameters were not submitted:

- Number of enterprises (2008/2009)

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- Number of enterprises

6.14.3 Quality

The quality of the data was not evaluated in the expert working group.

6.15 Poland

6.15.1 Delivery of data

Datasets were submitted before the deadline. After JRC checking and consultation with Polish authorities there were data resubmissions, see table 6.15.1

Table 6.15.1: Date of uploads for Poland

date	country_code	template	status
24/06/2011 12:59	POL	DCF_AQUA_MA_2008	SUCCESS
24/06/2011 12:59	POL	DCF_AQUA_MA_2009	SUCCESS
24/06/2011 12:59	POL	DCF_TURNOVER_SALES_2008	ERROR
24/06/2011 13:11	POL	DCF_TURNOVER_SALES_2008	ERROR
24/06/2011 13:12	POL	DCF_TURNOVER_SALES_2008	SUCCESS
24/06/2011 13:12	POL	DCF_TURNOVER_SALES_2009	ERROR
24/06/2011 13:13	POL	DCF_TURNOVER_SALES_2008	SUCCESS
24/06/2011 13:13	POL	DCF_TURNOVER_SALES_2009	SUCCESS
24/06/2011 13:50	POL	DCF_TURNOVER_SALES_2008	SUCCESS
24/06/2011 13:50	POL	DCF_TURNOVER_SALES_2009	SUCCESS
07/09/2011 11:23	POL	DCF_AQUA_MA_2008	SUCCESS
07/09/2011 11:23	POL	DCF_AQUA_MA_2009	SUCCESS
07/09/2011 11:24	POL	DCF_TURNOVER_SALES_2008	SUCCESS
07/09/2011 11:24	POL	DCF_TURNOVER_SALES_2009	SUCCESS
07/10/2011 13:45	POL	DCF_AQUA_MA_2008	SUCCESS
07/10/2011 13:45	POL	DCF_AQUA_MA_2009	SUCCESS
07/10/2011 13:45	POL	DCF_TURNOVER_SALES_2008	SUCCESS
07/10/2011 13:45	POL	DCF_TURNOVER_SALES_2009	SUCCESS

6.15.2 Coverage

Production data covered both years and was provided by segments. Economic data was provided only for year 2009 and covered the segment producing marine species.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- Comparison of 2008-2009 economic data

6.15.3 Quality

The economic performance includes all fish farms that breed and rear Atlantic salmon fry and cooperate with the Panel for Restocking appointed by the Minister of Agriculture and Rural Development (MARD) to stocking Polish marine areas and the maintenance and conservation of diadromous fishes in the surface inland waters.

A questionnaire was used to collecting all data. It was assumed that all rearing facilities and fish farms will return completed questionnaires. But in 2009 only 2 completed questionnaires returned. To estimate non-responses fish farms data information on the total stocking amount of salmon fry, obtained from the Panel on Restocking was used. Economic variables non-response fish farms were evaluated based on average figures obtained from the returned questionnaires.

Data on the size of the total aquaculture production in Poland is based on the questionnaire RRW-22 "Summary of surface fish ponds and the amount of fish produced in fish ponds and other devices for rearing". It is obligatory for all aquaculture farms to complete the questionnaire according to the regulation of June 29, 1995 on public statistics (Journal of Laws of 1995, No. 88, pos. 439, with later amendments).

Differences between Eurostat data and data collected in the DCF arise from the fact that DCF collects data on production volumes sold, which differs from the volume of production generated during the year.

6.16 Portugal

6.16.1 Delivery of data

All datasets were uploaded just in time to meet their deadline. Following quality checking procedures by the JRC and the Portuguese national expert, some data was adjusted and datasets re-submitted before, during and after the aquaculture economic report meeting, The latest re-submission of data (DCF) took place on the 28/11 2011, see table 6.16.1.

Table 6.16.1: Date of uploads for Portugal

date	country_code	template	status
27/06/2011 23:44	PRT	DCF_AQUA_MA_2008	ERROR
27/06/2011 23:47	PRT	DCF_AQUA_MA_2008	ERROR
27/06/2011 23:49	PRT	DCF_AQUA_MA_2008	SUCCESS
27/06/2011 23:49	PRT	DCF_AQUA_MA_2009	SUCCESS
28/06/2011 11:53	PRT	DCF_TURNOVER_SALES_2008	SUCCESS
28/06/2011 11:53	PRT	DCF_TURNOVER_SALES_2009	SUCCESS
05/10/2011 12:16	PRT	DCF_AQUA_MA_2008	ERROR
05/10/2011 12:16	PRT	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 12:16	PRT	DCF_AQUA_MA_2009	ERROR
05/10/2011 12:18	PRT	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 12:20	PRT	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 12:30	PRT	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 12:32	PRT	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 12:35	PRT	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 12:36	PRT	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 12:37	PRT	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 12:37	PRT	DCF_AQUA_MA_2009	SUCCESS
05/10/2011 15:20	PRT	DCF_AQUA_MA_2008	SUCCESS
05/10/2011 15:20	PRT	DCF_AQUA_MA_2009	SUCCESS
14/10/2011 21:13	PRT	DCF_AQUA_MA_2008	SUCCESS
14/10/2011 21:13	PRT	DCF_AQUA_MA_2009	ERROR
14/10/2011 21:16	PRT	DCF_AQUA_MA_2008	SUCCESS
14/10/2011 21:16	PRT	DCF_AQUA_MA_2009	SUCCESS
14/10/2011 21:16	PRT	DCF_TURNOVER_SALES_2008	SUCCESS
14/10/2011 21:16	PRT	DCF_TURNOVER_SALES_2009	SUCCESS
17/10/2011 11:33	PRT	DCF_AQUA_MA_2008	SUCCESS
17/10/2011 11:33	PRT	DCF_AQUA_MA_2009	SUCCESS
19/10/2011 10:50	PRT	DCF_AQUA_MA_2008	SUCCESS
19/10/2011 10:50	PRT	DCF_AQUA_MA_2009	SUCCESS
18/11/2011 16:29	PRT	DCF_AQUA_MA_2008	SUCCESS
18/11/2011 16:29	PRT	DCF_AQUA_MA_2009	SUCCESS

28/11/2011 17:47	PRT	DCF_AQUA_MA_2008	SUCCESS
28/11/2011 17:47	PRT	DCF_AQUA_MA_2009	SUCCESS

6.16.2 Coverage

The production data covered both years and was provided by segments. Economic data was provided for all parameters for 2009. There were many missing economic parameters for 2008. All data was provided by segments.

For DCF data, the following parameters were not submitted:

- Wages and salaries 2008
- Repair and maintenance 2008
- Debt 2008
- Depreciation 2008
- Financial costs 2008
- Extraordinary costs 2008
- Male FTE 2008
- Female FTE 2008
- FTE 2008
- Male employees 2008
- Female employees 2008
- Total assets 2008
- Net investments 2008

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- FTE 2008
- EBIT 2008
- ROI 2008
- Capital productivity 2008

6.16.3 Quality

Portuguese National programme for 2010-2013 predicts the starting of collection of economic data for aquaculture in 2011, referring to the years 2009 and 2010. An additional effort was made to also collect data for 2008. The data for 2008 was provided but some variables (economic) are not precise enough in order to make reliable comparisons with forward years. This is in line with the derogation Portugal got from Eurostat to produce statistic under the new regulation.

The great number of segments and the great concentration of production units in some of them bring some confidentiality issues and some aggregations were needed.

The production and sales value and volume data used in the data collection program was the same used to compile the statistics to Eurostat.

6.17 Romania

6.17.1 Delivery of data

All datasets were uploaded in time to meet the deadline. Following quality checking procedures by the JRC and the Romanian national expert, some data was adjusted and datasets re-submitted. The latest re-submission of data (DCF) took place on the 7/10 2011, see table 6.17.1.

Table 6.17.1: Date of uploads for Romania

date	country_code	template	status
24/06/2011 14:21	ROU	DCF_AQUA_MA_2008	SUCCESS
24/06/2011 14:21	ROU	DCF_AQUA_MA_2009	ERROR
24/06/2011 14:25	ROU	DCF_TURNOVER_SALES_2008	ERROR
24/06/2011 14:40	ROU	DCF_AQUA_MA_2008	SUCCESS
24/06/2011 14:40	ROU	DCF_AQUA_MA_2009	ERROR
24/06/2011 14:42	ROU	DCF_AQUA_MA_2008	SUCCESS
24/06/2011 14:42	ROU	DCF_AQUA_MA_2009	ERROR
24/06/2011 14:42	ROU	DCF_AQUA_MA_2008	SUCCESS
24/06/2011 14:42	ROU	DCF_AQUA_MA_2009	ERROR
24/06/2011 14:43	ROU	DCF_AQUA_MA_2008	SUCCESS
24/06/2011 14:43	ROU	DCF_AQUA_MA_2009	ERROR
24/06/2011 14:54	ROU	DCF_AQUA_MA_2008	SUCCESS
24/06/2011 14:54	ROU	DCF_AQUA_MA_2009	SUCCESS
24/06/2011 15:00	ROU	DCF_TURNOVER_SALES_2008	ERROR
24/06/2011 15:01	ROU	DCF_TURNOVER_SALES_2008	ERROR
24/06/2011 15:02	ROU	DCF_TURNOVER_SALES_2008	SUCCESS
24/06/2011 15:02	ROU	DCF_TURNOVER_SALES_2009	ERROR
24/06/2011 15:08	ROU	DCF_TURNOVER_SALES_2008	SUCCESS
24/06/2011 15:08	ROU	DCF_TURNOVER_SALES_2009	SUCCESS
27/06/2011 09:42	ROU	DCF_AQUA_MA_2008	SUCCESS
27/06/2011 09:42	ROU	DCF_AQUA_MA_2009	SUCCESS
27/06/2011 09:43	ROU	DCF_TURNOVER_SALES_2008	SUCCESS
27/06/2011 09:43	ROU	DCF_TURNOVER_SALES_2009	SUCCESS
31/08/2011 08:00	ROU	DCF_AQUA_MA_2008	SUCCESS
31/08/2011 08:00	ROU	DCF_AQUA_MA_2009	SUCCESS
31/08/2011 08:01	ROU	DCF_TURNOVER_SALES_2008	SUCCESS
31/08/2011 08:01	ROU	DCF_TURNOVER_SALES_2009	SUCCESS
07/10/2011 10:20	ROU	DCF_AQUA_MA_2009	SUCCESS

6.17.2 Coverage

Production data covered both years but economic data was submitted only for 2009. All data was provided by segments.

For DCF data, the following parameters were not submitted:

- All economic data for 2008

The following main indicators, for the years, were not estimated due to missing/erroneous data:

No indicators were estimated for the years 2008.

6.17.3 Quality

In Romania, 2009 was the first year for data collection in aquaculture and the range of coverage should be improved. Data availability is at a satisfactory level considering the range of coverage, but still there are problems on the collection of data, what should be avoided in the next years.

There are no negative aspects considering the segmentation on enterprise level, the homogeneity of the segments in terms of techniques and species.

It is not easy to reveal relevant differences with other official data sources since the collecting process were implemented for the first time. Although, Romania is invited to take the necessary measures (in legal or administrative frame) to improve the quality and to avoid differences with data collected from other official sources (i.e. Eurostat).

6.18 Slovenia

6.18.1 Delivery of data

All datasets were submitted before deadline, see table 6.18.1.

Table 6.18.1: Date of uploads for Slovenia

date	country_code	template	status
16/06/2011 09:51	SVN	DCF_AQUA_MA_2008	ERROR
16/06/2011 09:54	SVN	DCF_AQUA_MA_2008	SUCCESS
16/06/2011 09:54	SVN	DCF_AQUA_MA_2009	SUCCESS
16/06/2011 09:54	SVN	DCF_TURNOVER_SALES_2008	ERROR
16/06/2011 10:04	SVN	DCF_TURNOVER_SALES_2008	ERROR
16/06/2011 10:06	SVN	DCF_TURNOVER_SALES_2008	SUCCESS
16/06/2011 10:06	SVN	DCF_TURNOVER_SALES_2009	SUCCESS

6.18.2 Coverage

Data covered all parameters and was provided by segments.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- None

6.18.3 Quality and precision

Data were collected only for the marine fish species.

Regards to the data base "The central register of aquaculture and commercial ponds" from MAFF, in 2009, there were 9 operators in Slovenia dealing with shellfish farming and two subjects that were engaged in breeding of fish. The data for the operators mentioned were collected from multiple sources (AJPES, questionnaire, MAFF), allowing for cross checking. The accounting data, which are collected by the AJPES public agency, are already checked and verified. The data were collected for all 11 subjects.

In July 2010 the questionnaires for 2009 were sent to all operators and ten of them also returned the questionnaire. Therefore, the response was 91 %. Economic data on the aquaculture sector were collected from accounting records – AJPES and through questionnaires. The national program for collection of economic data for the aquaculture sector combines information from three main resources:

1. Questionnaire information returned from the aquaculture sector on a voluntary basis,
2. Data base: 'The central register of aquaculture and commercial ponds' from MAFF,
3. The annual accounts of business enterprises.

The data collected from all sources are combined in such a way that a complete set of accounting items is compared for each business enterprise.

While due to confidentiality issues because of the low number of marine fish farms, we are only presenting Mussel rafts segment (seg7.1) in the chapter 7.19.2: "Structure and economic performance of the sector's main segments".

In case of Slovenian data, there are differences between Eurostat and DCF data. The difference is because the Eurostat data also contain data from freshwater aquaculture.

6.19 Spain

6.19.1 Delivery of data

Spain submitted all datasets but after the data call deadline see table 6.19.1.

Table 6.19.1: Date of uploads for Spain

date	country_code	template	status
21/07/2011 12:54	ESP	DCF_TURNOVER_SALES_2008	ERROR
21/07/2011 14:48	ESP	DCF_TURNOVER_SALES_2008	ERROR
22/07/2011 14:40	ESP	DCF_TURNOVER_SALES_2008	SUCCESS
22/07/2011 14:40	ESP	DCF_TURNOVER_SALES_2009	SUCCESS
21/09/2011 16:30	ESP	DCF_AQUA_MA_2008	SUCCESS
21/09/2011 16:30	ESP	DCF_AQUA_MA_2009	SUCCESS

6.19.2 Coverage

Data was submitted on all economic parameters for years 2008-2009. Production value was provided by species 2008-2009 but volume information was missing (see 6.19.3). All data was provided by segments.

For DCF data, the following parameters were not submitted:

- Production value by species and segments (2008-2009)

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- Total sales volume

6.19.3 Quality

Spain has two surveys directed to the aquaculture sector. In 1999 the Activity Survey started, in order to get information about the activity of the aquaculture establishments, specially the species production with the different techniques and the employment of the sector. Recently, and as a consequence of Regulation (EC) No 199/2008, the Economic Survey for aquaculture sector started. It collects the economic information.

Data are collected with combined methods; in a part of the population we use a census and in another part we use a stratified sampling. As it is commonly known when the stratified sampling is used, when there is an important variation in the parameters collected, the number of answers can have an influence on the total values reported. This could explain the depreciation figure, which is much higher for 2009, as it was the number of answers in this specific question.

The segmentation used in Economic Survey uses a typology of aquaculture establishments which is coherent with the established groups in Commission Decision 2010/93/UE.

Anyway, this proposed stratification does not allow obtaining valid results for the whole population, in those cases in which is used the Probability sample survey and ask certain breakdowns, as in the following cases:

- **Turnover and “Income. “For species”.** Each segment collects large groups of species (salmon, trout, sea bream, sea bass, common carp, etc...). Companies can belong to only one segment. However, they can grow and produce other different species. The random sample selection takes into account just the main specie (in volume). The stratum aren't representative of the species that are grown or produced. For this reason, there can be an important bias when you raise the sample results to the whole population.
- **Total sales volume:** In addition, in the template the volume must be measured in tonnes. The production for human consumption is measured in tonnes; however, different stages in life cycle (eggs or juveniles) are measured in quantities. It is really difficult to estimate a conversion factor between quantities to tons, because each establishment produces different size juveniles depending on the demand. That is the main reason, Spain has not provided data in DCF, because the end user can interpret the figure given in tonnes as the only production related with the total incomes provided. And this income is due to this production plus another production measured in quantities.
- **Raw material volume: Feed:** There is some data for feed collected in litres (feed used in mollusc hatcheries and nurseries...).

6.20 Sweden

6.20.1 Delivery of data

All the datasets were uploaded first time just after the deadline. Following quality checks by JRC and the Swedish expert, some datasets were changed and resubmitted before, and after the aquaculture economic report meeting, see table 6.20.1.

Table 6.20.1: Date of uploads for Sweden

date	country_code	template	status
29/06/2011 15:42	SWE	DCF_TURNOVER_SALES_2008	SUCCESS
29/06/2011 15:42	SWE	DCF_TURNOVER_SALES_2009	ERROR
29/06/2011 15:44	SWE	DCF_TURNOVER_SALES_2008	SUCCESS
29/06/2011 15:44	SWE	DCF_TURNOVER_SALES_2009	ERROR
29/06/2011 15:46	SWE	DCF_TURNOVER_SALES_2008	SUCCESS
29/06/2011 15:46	SWE	DCF_TURNOVER_SALES_2009	SUCCESS
29/06/2011 16:12	SWE	DCF_AQUA_MA_2008	ERROR
29/06/2011 16:16	SWE	DCF_AQUA_MA_2008	ERROR
29/06/2011 16:19	SWE	DCF_AQUA_MA_2008	SUCCESS
29/06/2011 16:19	SWE	DCF_AQUA_MA_2009	SUCCESS
01/07/2011 16:28	CYP	DCF_TURNOVER_SALES_2008	ERROR
01/07/2011 16:45	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:04	CYP	DCF_AQUA_MA_2008	SUCCESS
05/07/2011 12:04	CYP	DCF_AQUA_MA_2009	ERROR
05/07/2011 12:07	CYP	DCF_AQUA_MA_2008	SUCCESS
05/07/2011 12:07	CYP	DCF_AQUA_MA_2009	SUCCESS
05/07/2011 12:24	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:33	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:40	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:51	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:54	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:55	CYP	DCF_TURNOVER_SALES_2008	ERROR
05/07/2011 12:56	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
05/07/2011 12:56	CYP	DCF_TURNOVER_SALES_2009	ERROR
05/07/2011 12:57	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
05/07/2011 12:57	CYP	DCF_TURNOVER_SALES_2009	ERROR
05/07/2011 13:00	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
05/07/2011 13:00	CYP	DCF_TURNOVER_SALES_2009	ERROR
13/07/2011 11:36	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
13/07/2011 11:36	CYP	DCF_TURNOVER_SALES_2009	SUCCESS
22/07/2011 13:35	CYP	DCF_AQUA_MA_2008	ERROR
22/07/2011 13:36	CYP	DCF_AQUA_MA_2008	SUCCESS
22/07/2011 13:36	CYP	DCF_AQUA_MA_2009	ERROR
22/07/2011 13:41	CYP	DCF_AQUA_MA_2008	ERROR
22/07/2011 13:43	CYP	DCF_AQUA_MA_2008	SUCCESS

22/07/2011 13:43	CYP	DCF_AQUA_MA_2009	SUCCESS
25/07/2011 12:34	CYP	DCF_TURNOVER_SALES_2008	ERROR
25/07/2011 12:37	CYP	DCF_TURNOVER_SALES_2008	ERROR
25/07/2011 12:38	CYP	DCF_TURNOVER_SALES_2008	SUCCESS
25/07/2011 12:38	CYP	DCF_TURNOVER_SALES_2009	SUCCESS
16/09/2011 14:28	CYP	DCF_AQUA_MA_2008	SUCCESS
16/09/2011 14:28	CYP	DCF_AQUA_MA_2009	SUCCESS
12/10/2011 12:04	SWE	DCF_AQUA_MA_2008	SUCCESS
12/10/2011 12:04	SWE	DCF_AQUA_MA_2009	SUCCESS
26/01/2012 13:39	SWE	DCF_AQUA_MA_2008	SUCCESS
26/01/2012 13:39	SWE	DCF_AQUA_MA_2009	SUCCESS
26/01/2012 13:40	SWE	DCF_TURNOVER_SALES_2008	ERROR
26/01/2012 14:07	SWE	DCF_TURNOVER_SALES_2008	SUCCESS
26/01/2012 14:07	SWE	DCF_TURNOVER_SALES_2009	SUCCESS

6.20.2 Coverage

All parameters were provided by segments. Only some production data was not provided by all segments due to the confidentiality reasons.

For DCF data, the following parameters were not submitted:

- None

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- None

6.20.3 Quality

The Swedish Agency for Marine and Water Management (previously The Swedish Board of Fisheries) was responsible for compiling and reporting statistics on the aquaculture sector for the reported period. The Swedish Agency for Marine and Water Management in cooperation with Statistics Sweden conducted two questionnaires and a tax declaration survey for each year.

Data was collected by Statistics Sweden in several ways. First, income tax declarations from every enterprise whose main source of income (more than 50 %) came from aquaculture was compiled (EUROSTAT definition under NACE Code 03.2 "Fish farming"). A questionnaire concerning farming techniques, investments, production value and volume was sent to all aquaculture farms. The purpose of this survey was to provide additional information in order to enable a clustering of farming units to enterprises in cases when several farming units are equal to one fiscal enterprise. This method also makes it possible to compare information on value of aquaculture production with declared income from income tax

declarations. These comparisons are needed to determine whether aquaculture farming is the main activity of the enterprise or not. Secondly, a questionnaire was sent to a sample of the aquaculture enterprises in order to create a cost allocation key for costs that are not specified in the income tax declaration. This is a non-probability survey.

Data on subsidies was collected from The Swedish Agency for Marine and Water Management, the managing authority of the European Fisheries Fund (EFF), and compiled by Statistics Sweden. Lastly, in order to identify the segments, companies using more than one farming technique or growing more than one species, all production, incomes and costs were transferred to the main technique and main species based on turnover.¹ Data on aquaculture production is reported from the Swedish official statistics to Eurostat. Hence, the volume of production as reported by Eurostat should coincide with volumes reported in Swedish official statistics. However, disparities can occur due to updates in the data mainly due to changes in the number of active enterprises.

¹ Source: The Swedish Agency for Marine and Water Management

6.21 United Kingdom

6.21.1 Delivery of data

UK only submitted datasets relating to economic variables. No production data was sent, see table 6.21.1.

Table 6.21.1: Date of uploads for United Kingdom

date	country_code	template	status
22/09/2011 09:41	GBR	DCF_AQUA_MA_2009	SUCCESS
22/09/2011 09:41	GBR	DCF_AQUA_MA_2008	SUCCESS

6.21.2 Coverage

UK did not provide any data on volume of the production. Also there were most of the economic parameters missing.

For DCF data, the following parameters were not submitted:

- Energy costs 2008-2009
- Raw material costs 2008-2009
- Repair and maintenance 2008-2009
- Debt 2008-2009
- Depreciation 2008-2009
- Financial costs 2008-2009
- Extraordinary costs 2008-2009
- FTE by gender 2008-2009
- Employment by gender 2008-2009
- Net investments 2008-2009
- Raw material volume 2008-2009
- Total sales volume 2008-2009
- All production parameters 2008-2009

The following main indicators, for the years, were not estimated due to missing/erroneous data:

- Total sales volume 2008-2009
- % unpaid labour: 2008-2009
- Gross value added: 2008-2009
- EBIT: 2008-2009
- Return on Investment: 2008-2009
- Subsidies 2008-2009
- Labour productivity: 2008-2009
- Capital productivity: 2008-2009
- Average salaries: 2008-2009
- Running cost to turnover 2009
- EBIT to turnover ratio 2009

6.21.3 Quality

Production data from UK aquaculture is based on complete censuses and is believed to be accurate as cooperation between farmers and the ministry agencies is amicable. Economic data derived from the ABI sample survey is unreliable due to sampling variation and is limited to the larger firms. It was estimated as Eurostat quality level 2 - +/-25 % with 95 % confidence. It is apparent that for future years the data must be collected explicitly from the major segments to establish the validity and precision in each.

Production data for the UK is submitted to Eurostat and published in Finfish News and Shellfish News (www.cefas.co.uk). Scottish salmon and trout production is reported in much more detail in annual reports (<http://www.scotland.gov.uk/Topics/marine/Fish-Shellfish>). ABI data is available on the statistics.gov.uk website (<http://www.ons.gov.uk/ons/about-ons/who-we-are/services/unpublished-data/business-data/abi/abi-faqs/index.html>).

Restricting the economic reports to the three major segments leads to no issues of confidentiality as individual firms will not be apparent.

END

