

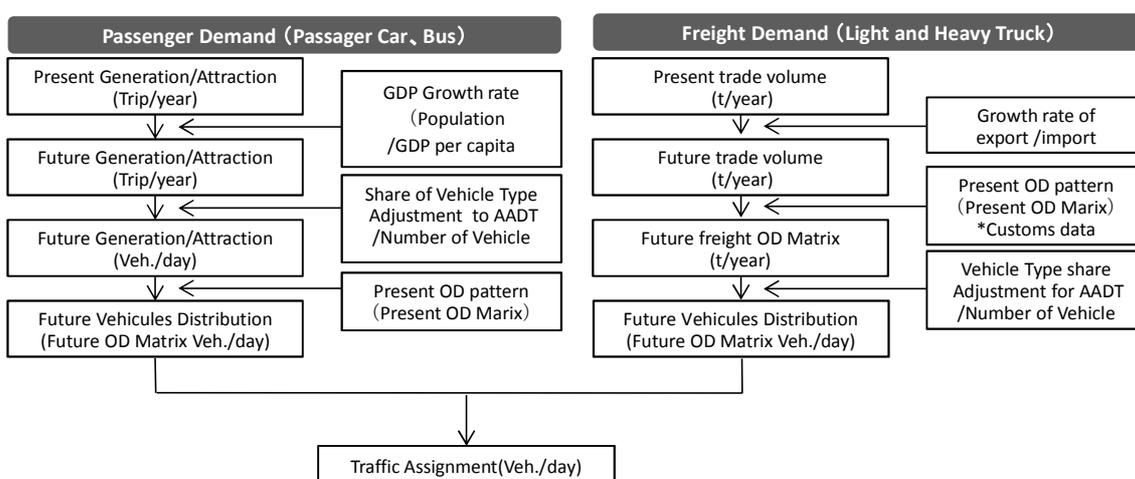
## Chapter 9 FUTURE TRAFFIC DEMAND FORECAST

### 9.1 Basic Idea for Future Traffic Demand Forecast

In this Survey, future OD tables are forecasted based on the OD tables to indicate present situation created through field traffic surveys, while an overview of future traffic demand for each corridor is calculated. Basic preconditions are shown in Table 9-1 below. Forecast of future traffic demand was obtained based on these preconditions and using flows of passengers and freight shown in Figure 9-1.

**Table 9-1 Preconditions of future traffic demand forecast**

Items	Preconditions
Target year	Future OD table (2022)
Zoning	27 zones
Future road network	The target road network is UEMOA corridors. It is presumed that current underdeveloped routes will be difficult to be in service by the year for forecast. Therefore, the current UEMOA corridors are used in the forecast.
Generation/Attraction model	The growth rate methodology is applied here. Since the traffic subject to the survey has the nature of cross-border traffic, the regression model usually used for urban traffic surveys cannot offer a fully satisfactory explanation. And, the number of samples is limited.
Distribution model	The present pattern methodology is applied here. It is presumed that there is no major variables in road performance and duration needed to travel between zones and linkage of zones will not change (Business As Usual: BAU).
Assignment model	Route assignment. Routes connecting zones are limited and inter-zone traffic is uniquely allocated to inter-zone roads. In accordance with bilateral agreements, traffic bound to landlocked countries cannot cross over other coastal countries.
Share of vehicles	In the year for forecast, share of vehicles and Railroads in traffic volume does not change. For share among vehicle types, the current share is applied.
Transport efficiency	Conversion factor to vehicles is obtained based on the number of passengers and freight volume transported in a vehicle obtained from surveys.



Source: JICA Study team

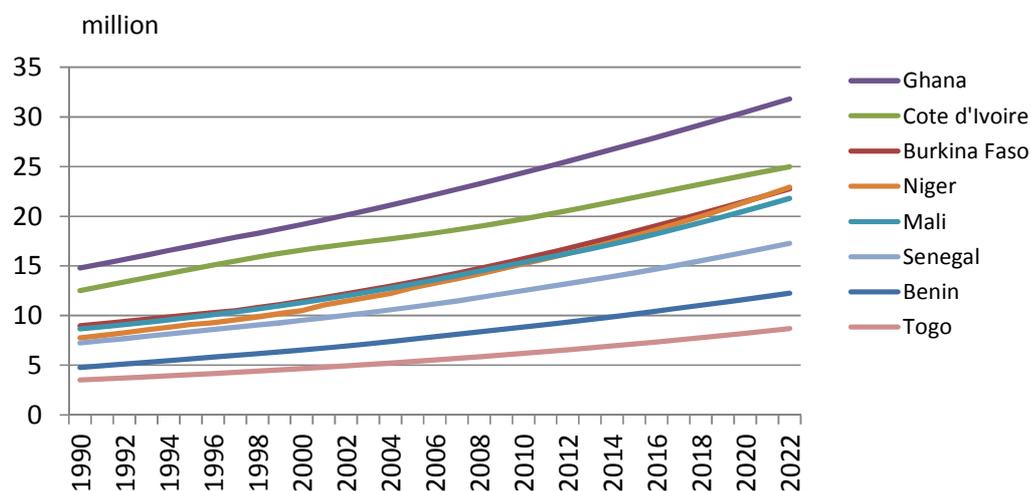
**Figure 9-1 Basic idea for future traffic demand forecast**

## 9.2 Socio-Economic Frame Work

In forecasting future traffic demand for passengers and freight, a socio-economic frame was set up. Population, GDP and import/export volumes that are generally used in forecasting future traffic demand are set up for the frame.

### 9.2.1 Population

For the population frame, a frame established in each country was applied. For countries where the population frame up until 2022 is not known, forecast was made by applying a logistic curve created with actual data for 1990 and later. The population frame established is 160 million for 2022 (120 million for 2011).



Source: Estimation by JICA Study team

**Figure 9-2 Population frame**

**Table 9-2 Population frame**

	Senegal	Mali	Burkina Faso	Niger	Cote d'Ivoire	Ghana	Togo	Benin	Total
2011	12.9	15.8	16.2	15.7	20.1	25.0	6.4	9.1	121.2
2022	17.3	21.8	22.8	22.9	24.2	31.8	8.7	12.2	161.7

Source: Estimation by JICA Study team

## 9.2.2 GDP

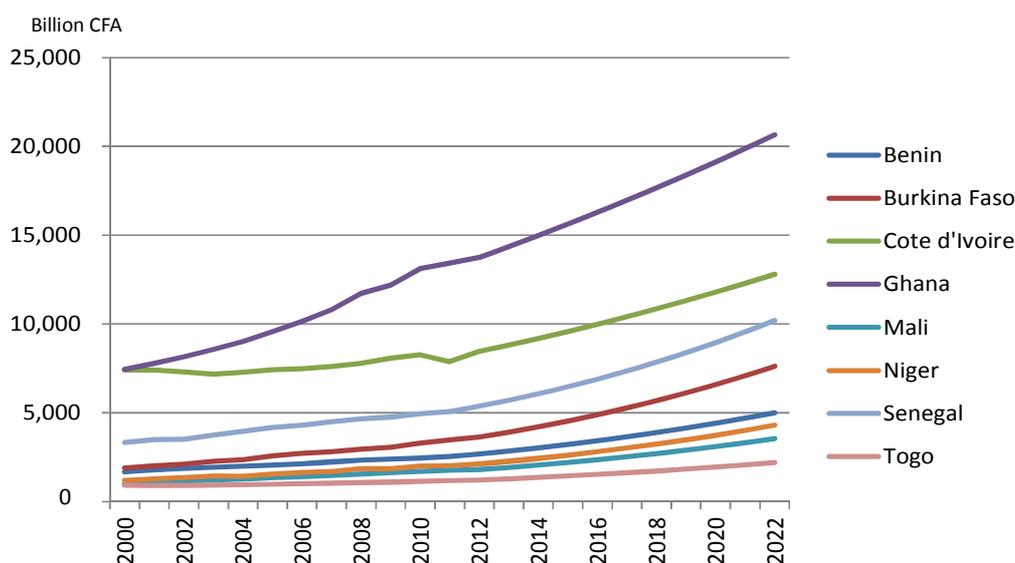
GDP here is based on the median estimates published in REP2 (*Deuxieme phase du Programme economique regional de l'UEMOA*). For 2017 to 2022, the value of 2016 is applied. Meanwhile, for GDP frame by country, linear regression analysis was made based on actual per capita GDP up until 2011 to obtain future values up until 2022. By multiplying the values by already obtained future population, GDP for each country was obtained. Furthermore, using GDP for the entire UEMOA area as a control total, each country's GDP was adjusted to obtain GDP for each zone subject to forecast.

**Table 9-3 GDP frame (Growth rate)**

	Senegal	Mali	Burkina Faso	Niger	Cote d'Ivoire	Ghana	Togo	Benin
2012-2017	6.6 %	7.0 %	7.8 %	7.3 %	4.3 %	4.3 %	6.1 %	6.4 %
2017-2022	6.8 %	7.1 %	7.7 %	7.5 %	4.3 %	4.0 %	6.3 %	6.5 %

Source: Estimation by JICA Study team

Absolute GDP in 2011 in Ghana is the largest accounting for 1/3 of the total but the growth rate in 2022 over 2011 (2022/2011) will be 1.54 times at the lowest in Ghana. The highest growth rate will be 2.19 times in Burkina Faso and 2.12 times in Niger. The growth rate in Cote d'Ivoire will be the second lowest at 1.63 times.



Source: Estimation by JICA Study team

**Figure 9-3 Forecast of GDP by country**

### 9.2.3 Imports and Exports Volume in weight

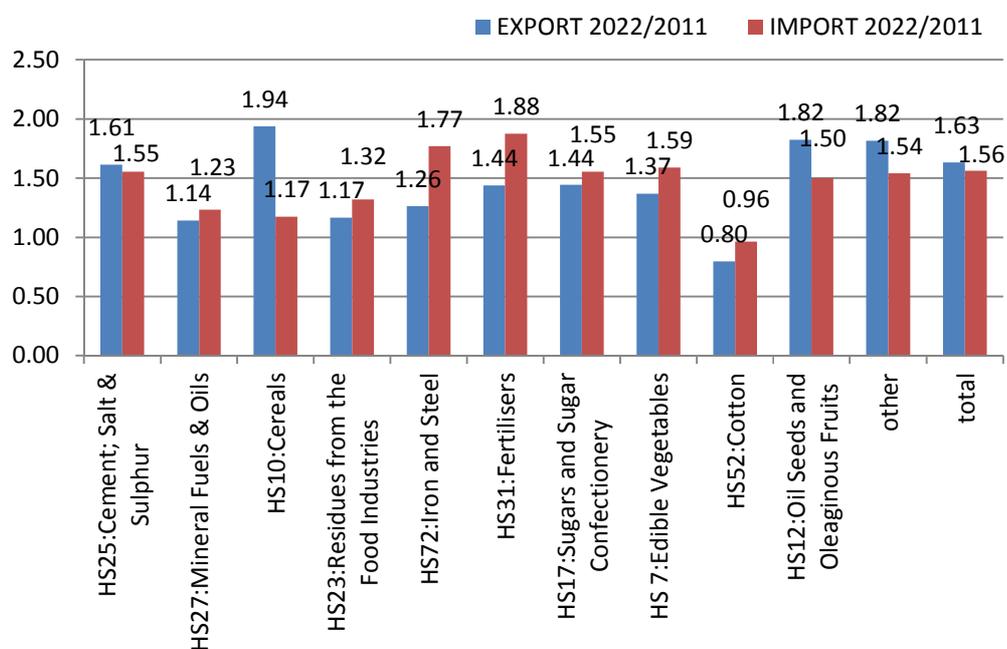
#### (1) Import/export volumes (Weight basis)

For import/export volumes, a future frame was obtained through linear regression analysis in which country-by-country import/export volumes (weight basis) for the past five years were used. Major items of goods used here are key 10 items selected when conducting analysis of present traffic flow. In the volume totaling those of all items, exports are forecasted to grow by 1.63 times and imports by 1.56 times.

Based on the latest data on import and export volumes in weight for each item of key goods for the past 5 years, forecasts of future imports and exports (in weight) were obtained through the linear regression method (in order not to forecast based on singular values, however, the upper limit of the growth rate in 2022 over 2011 was set at 2.50 times and lower limit at 0.50 times).

Major items of goods used in this forecast include 10 items selected in the section of 8.4.1 (3) and the average growth rate for each item is indicated below for the 8 countries subject to this survey.

The highest growth rate will be seen in grain exports, while in imports, the highest growth rate will be found in fertilizer. Meanwhile, the lowest growth rate will be seen in cotton, both for imports and exports. In total, exports will grow 1.63 times and imports 1.56 times, with not much difference between the two.

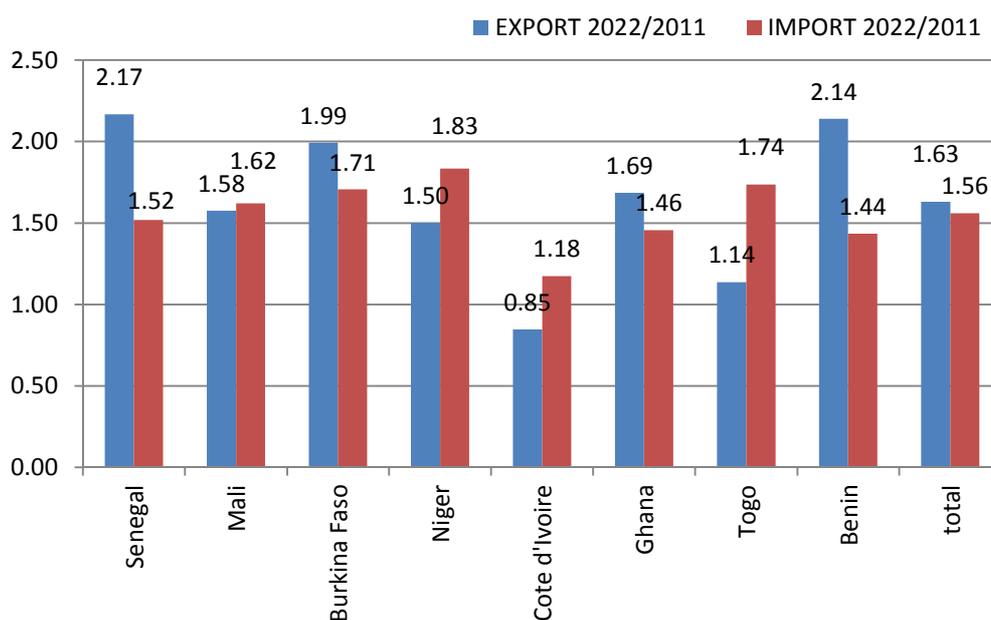


Source: Data prepared by JICA survey team based on country statistics.

Figure 9-4 Average growth rate of imports and exports by item of key goods

The growth rate of total imports and exports, respectively, of the 8 countries subject to this survey is shown below.

The highest growth rate will be recorded by Senegal in exports and by Niger in imports. On the other hand, the lowest growth rate will be seen in Cote d'Ivoire both in imports and exports. In total of the 8 countries, exports will grow 1.63 times and imports 1.56 times. Characteristics found in growth of imports and exports by item of goods in the 8 countries are shown below.



Source: Data prepared by JICA survey team based on country statistics.

**Figure 9-5 Growth rate of imports and exports by country**

**Table 9-4 Characteristics of growth of imports and exports by item**

	Characteristics
Senegal	Exports Cement, etc. with the largest volume in weight grows 2.50 times. Imports Oil, etc. with the largest volume in weight grows 1.93 times.
Mali	Exports Others with the largest volume in weight grow 2.50 times. Oil with the second largest volume in weight grows 1.57 times. Imports Cement, etc. with the largest volume in weight grows 2.17 times.
Burkina Faso	Exports Others with the largest volume in weight grow 2.50 times. Shea nut with the second largest volume in weight grows 2.00 times. Imports Others with the largest volume in weight grow 2.07 times. Cement, etc. with the second largest volume in weight grow 1.60 times.
Niger	Exports Others with the largest volume in weight grow 2.08 times. Imports Others with the largest volume in weight grow 2.50 times. Vegetables with the second largest volume in weight shrink at the rate of 0.74 times.
Cote d'Ivoire	Exports Others with the largest volume in weight slightly grow 1.18 times. Oil with the second largest volume in weight shrinks at the rate of 0.50 times. Imports Others with the largest volume in weight grow 1.75 times.
Ghana	Exports Oil with the largest volume in weight grows 2.50 times. Others with the second largest volume in weight shrink at the rate of 0.62 times. Imports Others with the largest volume in weight grow 1.86 times.
Togo	Exports Cement, etc. with the largest volume in weight slightly shrink at the rate of 0.98 times. Cotton with the second largest volume in weight grows 2.09 times. Imports Cement, etc. with the largest volume in weight grow 1.94 times.
Benin	Exports Others with the largest volume in weight grow 2.27 times. Imports Others with the largest volume in weight grow 1.74 times.

Data justifying the forecasts of imports and exports by item of key goods by country are included in the attached collection of materials.

Source: JICA survey team

## 9.3 Future Traffic Demand Forecast

### 9.3.1 Forecasts of Future Passenger Demand

#### (1) Forecast procedures

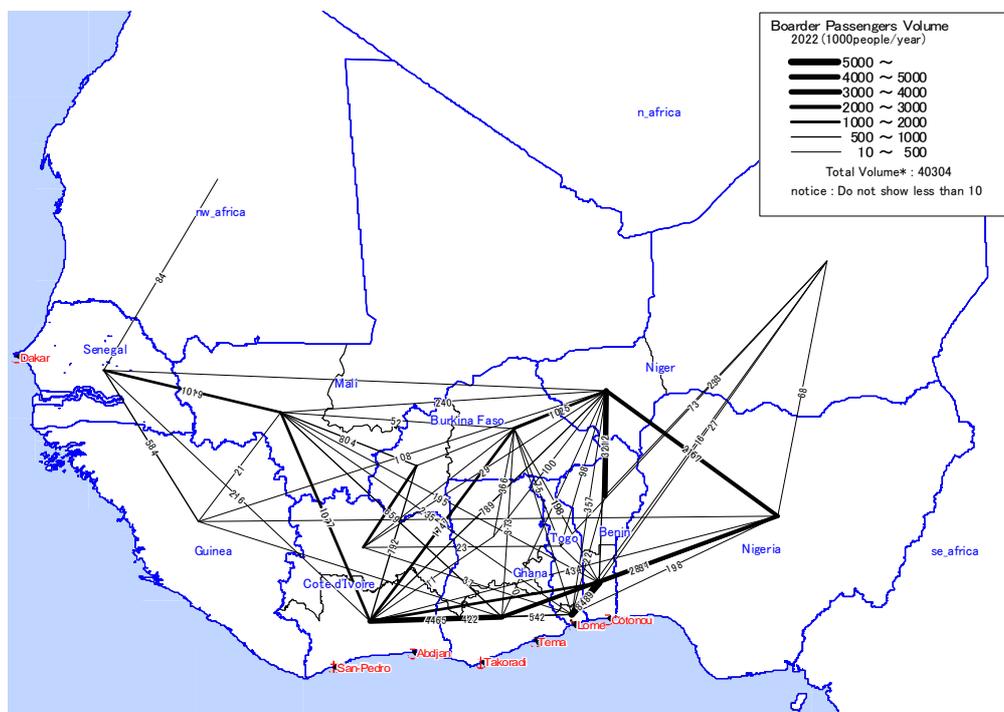
Forecast was made on the future growth rate of concentrated occurrence traffic volume for each zone, using each country's present traffic statistics and future GDP growth rate forecasts (see 9.2.2). Then, forecasted concentrated occurrence traffic volume and OD tables indicating the present situation were used to create OD tables indicating the future situation through the present pattern method.

#### (2) Results of forecast

According to the forecast, future cross-border passenger traffic demand (generated demand) will be 40 million peoples/year, which is about 1.9 times the current figure. Examining concentrated occurrence by country, Benin (16 million peoples/year) and Cote d'Ivoire (13 million peoples/year) are the largest, followed by Togo (11 million peoples /year).

In cross-border traffic, generally, flow in coastal countries is prominent; particularly linkage between southern Cote d'Ivoire and southern Ghana and between southern Togo and southern Benin is strong.

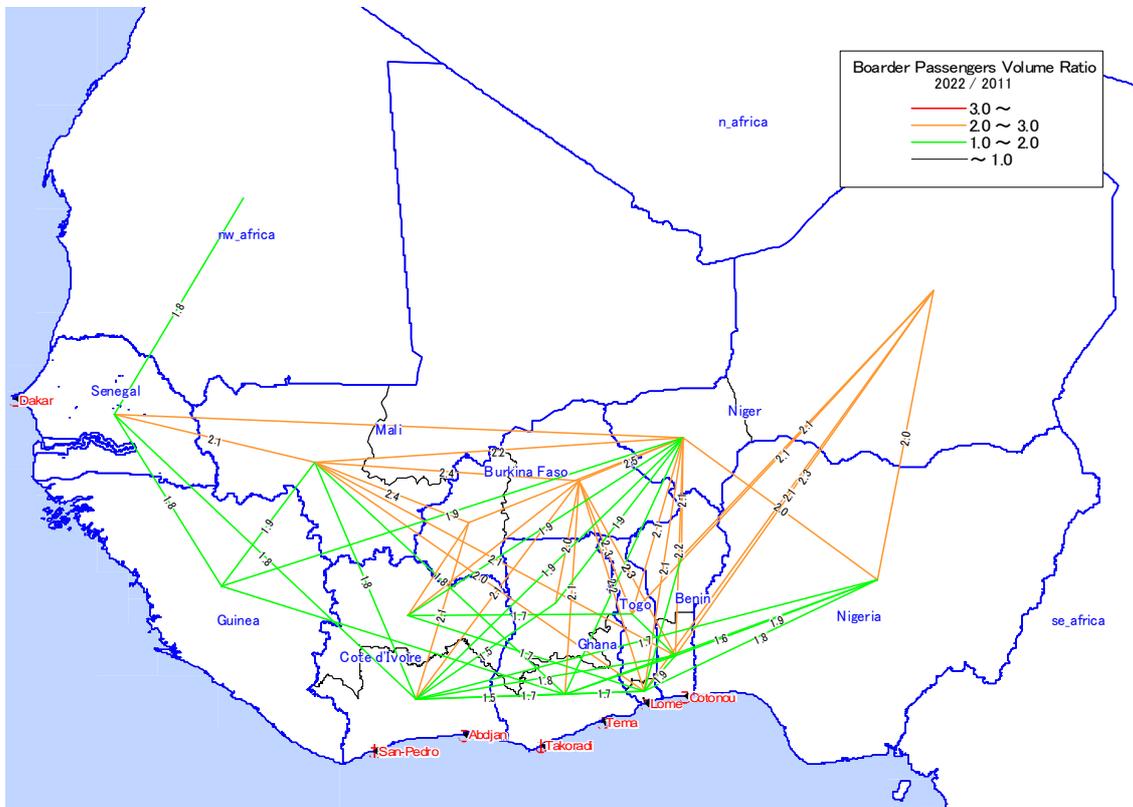
Of flow mainly in relation to inland countries, linkage between Niger and Benin and Nigeria is strong, while Burkina Faso has a strong linkage with Cote d'Ivoire, Mali with Senegal and Cote d'Ivoire.



Source: JICA survey team

Figure 9-6 Flow of future (2022) passenger demand ('000 peoples/year)

Future OD traffic volume will increase from the current value in flow in inland countries of Burkina Faso, Mali and Niger.



Source: JICA survey team

Figure 9-7 Growth of passenger demand (2022/2011)

### 9.3.2 Forecast of Future Freight Demand

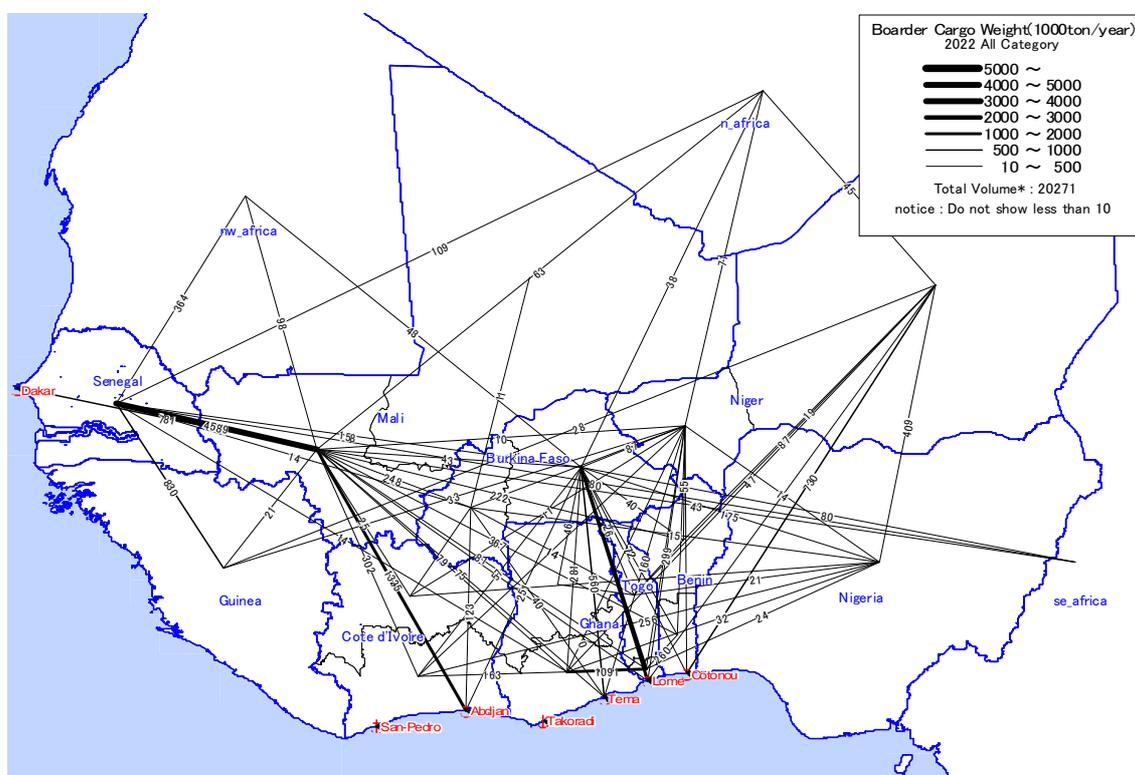
#### (1) Forecast procedures

Future growth rate of imports and exports by item of goods forecasted for each country over the present situation (see Figure 9-4 and Figure 9-5) was used to obtain the future concentrated occurrence traffic volume for each zone. And then, future OD tables were created based on the above zone-based concentrated occurrence traffic volume and the current OD tables through the present pattern method.

#### (2) Results of forecast

Future cross-border freight traffic demand (generated demand) will be 20 million tons/year, which is about 1.6 times the current figure. Looking at concentrated occurrence by country, Mali (8.6 million tons/year) is the largest, followed by Senegal (6.2 million tons/year) and Burkina Faso (5.0 million tons/year).

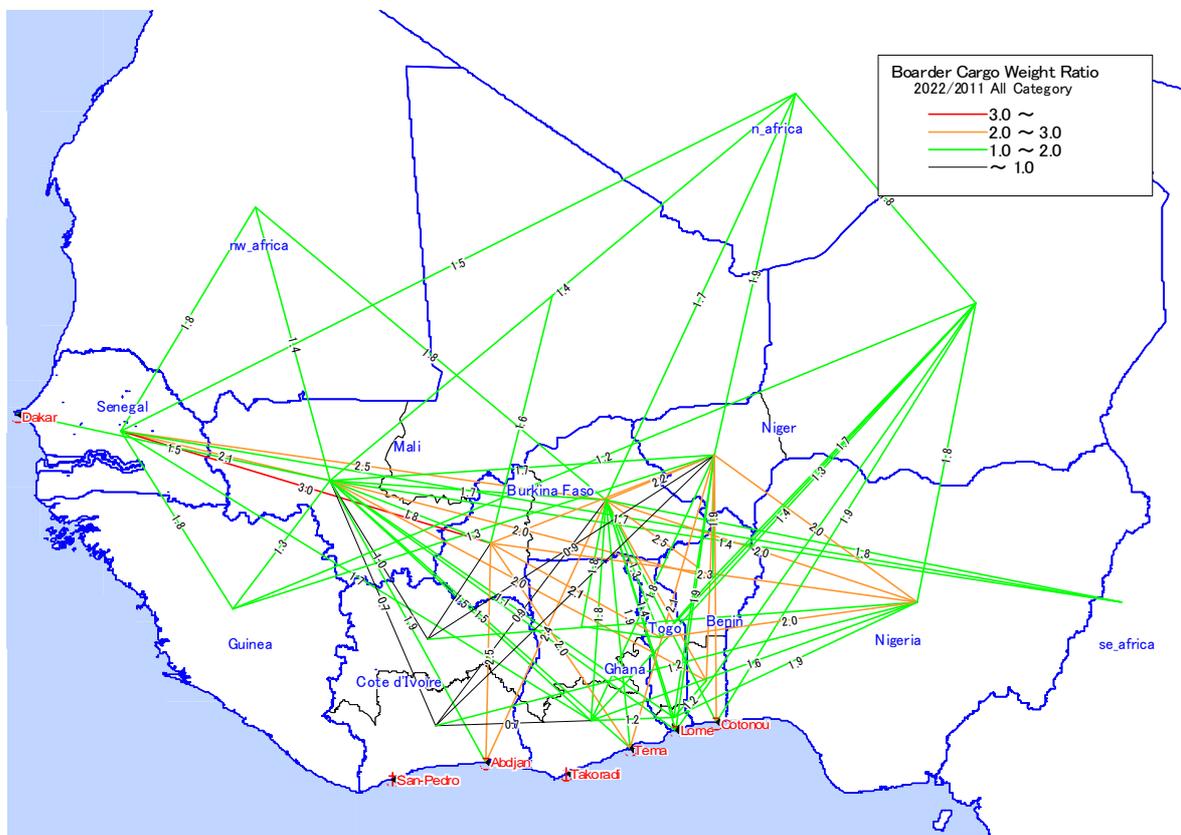
In cross-border traffic, generally, flow between Mali and Senegal is prominent, while flow between eastern Burkina Faso and the port of Lomé and southern Togo as well as between Mali and the port of Abidjan is also large.



Source: JICA survey team

Figure 9-8 Flow of future (2022) freight demand ('000t/year) : All Items of goods

Future OD traffic volume is particularly larger than the current figure in relation to flow in inland countries such as Burkina Faso and western Niger, while flow in relation to Cote d'Ivoire is found to have a tendency to decrease. (See Figure 9-9)



Source: JICA survey team

**Figure 9-9 Growth of freight demand (2022/2011) for All Items of goods**

Figures from 9-10 to 9-29 are flow maps of Freight by item of goods (2022) and grow rates of freight demand by item of goods (2022/2011).

Major characteristics found in traffic flow are shown below for each item of goods (see Table 9-5).

**Table 9-5 Characteristics of imports and exports traffic demand by item of goods**

	Characteristics
HS7:Edible Vegetables	Flow between Niger and southern Ghana is large. Growth rate is higher for flow between inland countries (Burkina Faso and western Niger) and coastal countries (southern Ghana, southern Togo and southern Benin). Flow in relation to Cote d'Ivoire tends to decrease.
HS10:Cereals	Flow between inland countries and ports are large: between Mali and the port of Dakar or Abidjan as well as between Burkina Faso and the port of Tema, Lomé or Cotonou. Growth rate is higher for flow in relation to the port of Tema or Lomé and Mali.
HS12:Oil Seeds and Oleaginous Fruits	Flow volume is the largest between east zone of Burkina Faso and the port of Lomé. Most of flow concentrates on east zone of Burkina Faso, which is mainly between domestic zone of Ghana or Togo and ports. Growth rate is higher for flow in relation to Senegal or Burkina Faso, while flow decreases in relation to Mali.
HS17:Sugars and Sugar Confectionery	Flow volume is the largest between Mali and the port of Abidjan or Dakar, that is flow in relation to Mali, while flow between eastern Burkina Faso and ports is rather large. Growth rate is higher for flow in relation to Burkina Faso, while flow in relation to Niger tends to decrease.
HS23:Residues from the Food Industries	Flow volume is the largest in relation to Senegal. Growth rate is the highest for flow in relation to Niger.
HS25:Cement; Salt & Sulphur	The largest is flow between Mali and Senegal. Growth rate is the highest for flow in relation to Senegal and the port of Cotonou.
HS27:Mineral Fuels & Oils	Flow volume is the largest between Mali and Senegal and flow in relation to Mali is large. Growth rate is the highest for flow in relation to Mali and flow in relation to eastern Niger.
HS31:Fertilizers	Flow volume is the largest between Mali and the port of Abidjan or Dakar. Growth rate is the highest for flow in relation to the port of Abidjan or Cotonou and Burkina Faso.
HS52:Cotton	Flow volume is the largest between eastern Burkina Faso and the port of Lomé, all in relation to Burkina Faso. Growth rate is the highest for flow in relation to eastern Burkina Faso, while flow tends to decrease in relation to Mali.
HS72:Iron and Steel	Flow volume is the largest between Mali and the port of Abidjan or Dakar. Growth rate is the highest for flow in relation to the ports of Abidjan and Cotonou and Niger.

Source: JICA survey team

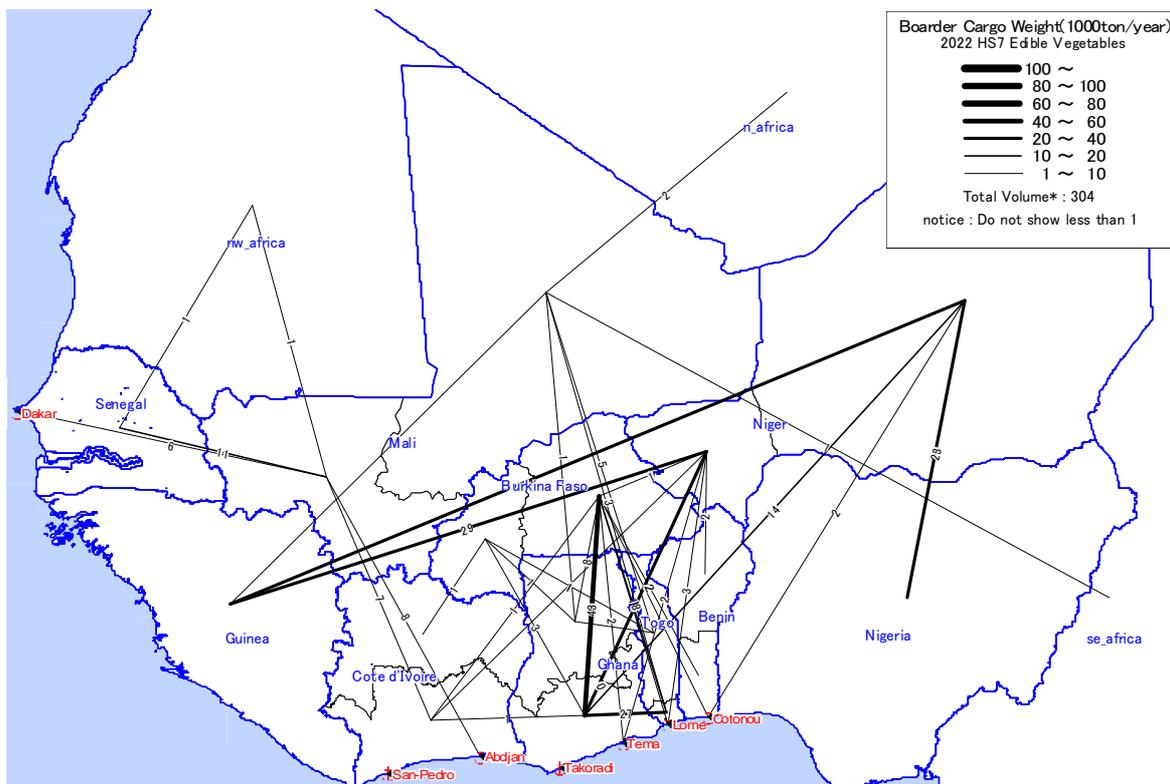


Figure 9-10 Flow of future (2022) freight demand ('000t/year): HS7 Edible Vegetables

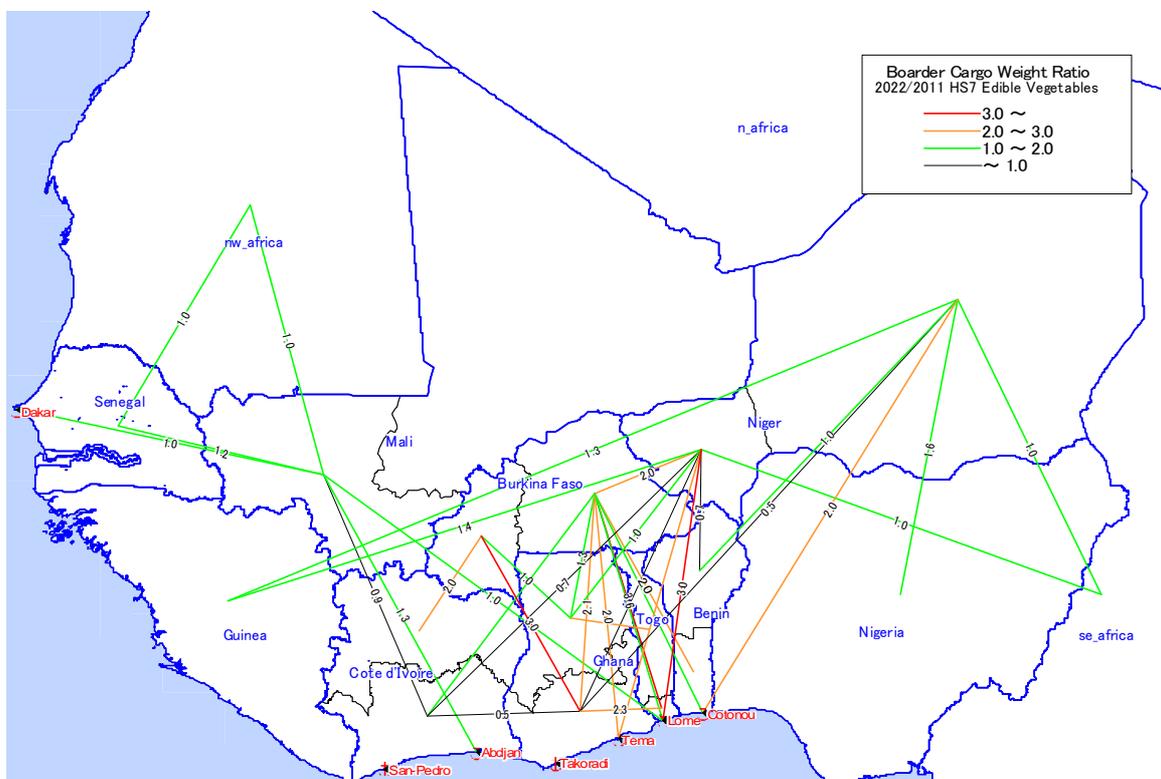


Figure 9-11 Growth of freight demand (2022/2011): HS7 Edible Vegetables

Source: JICA survey team

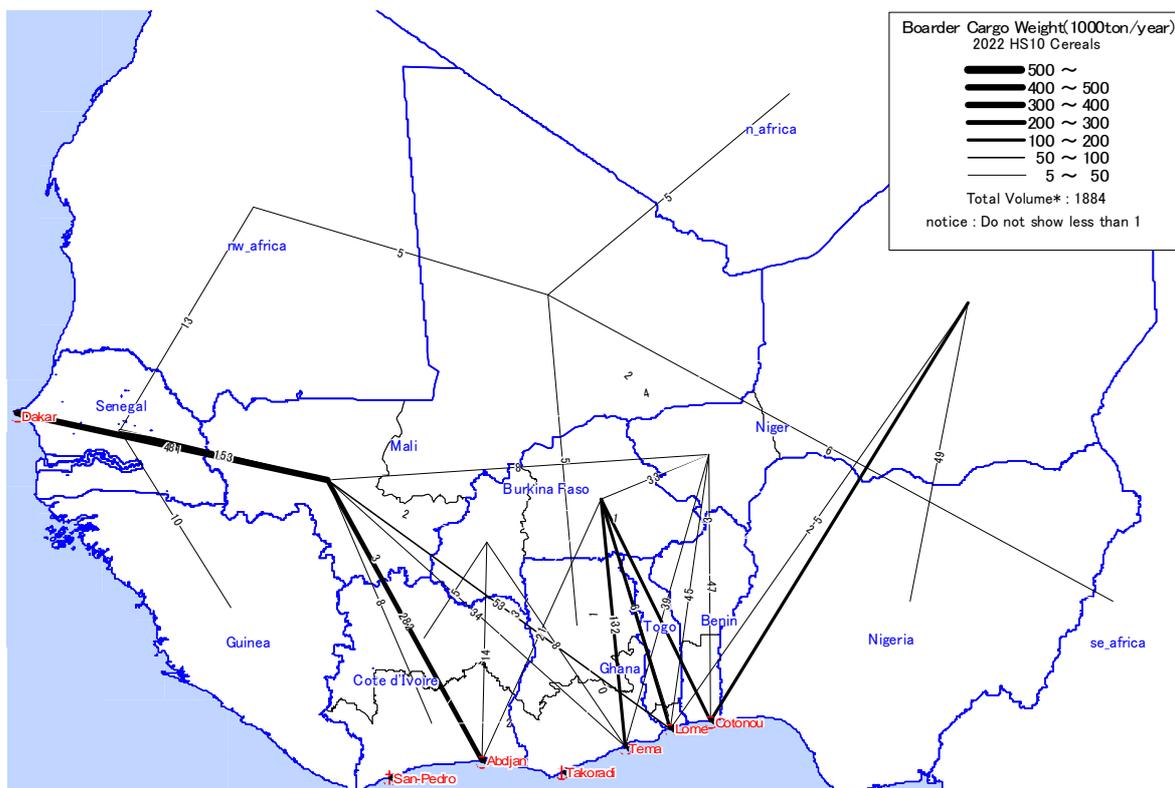


Figure 9-12 Flow of future (2022) freight demand ('000t/year): HS10 Cereals

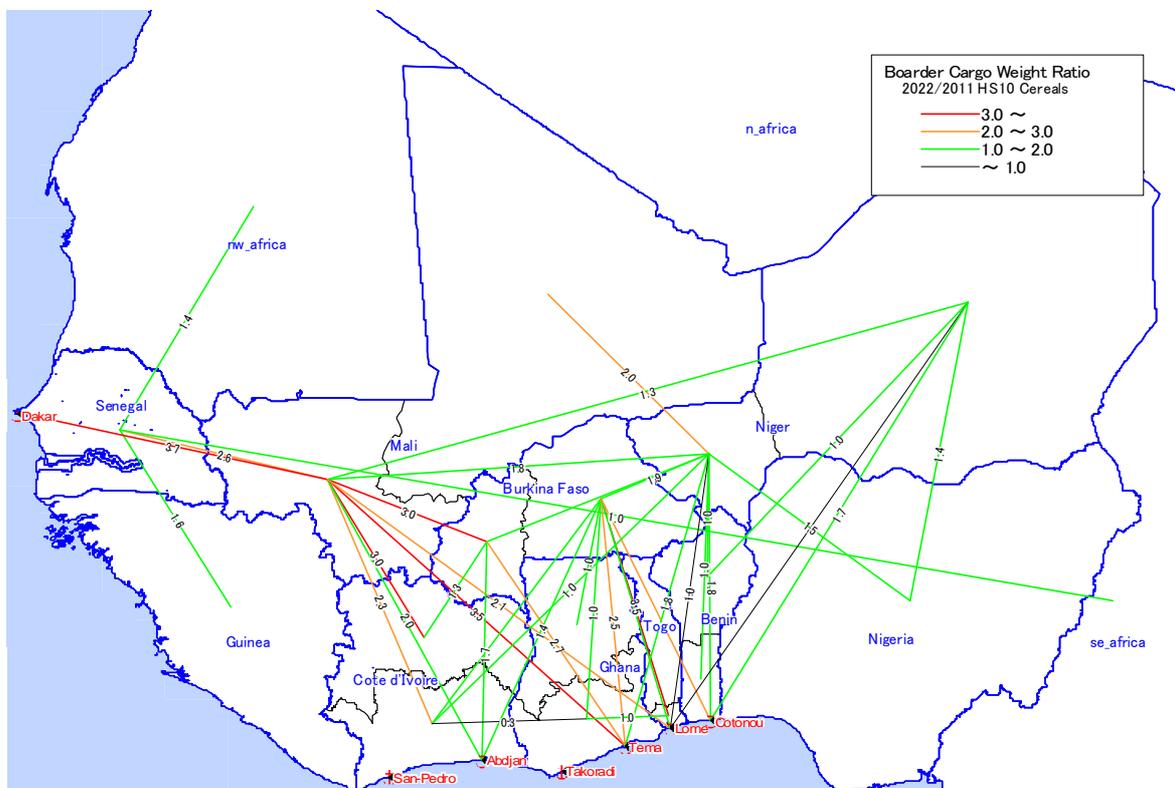


Figure 9-13 Growth of freight demand (2022/2011): HS10 Cereals

Source: JICA survey team

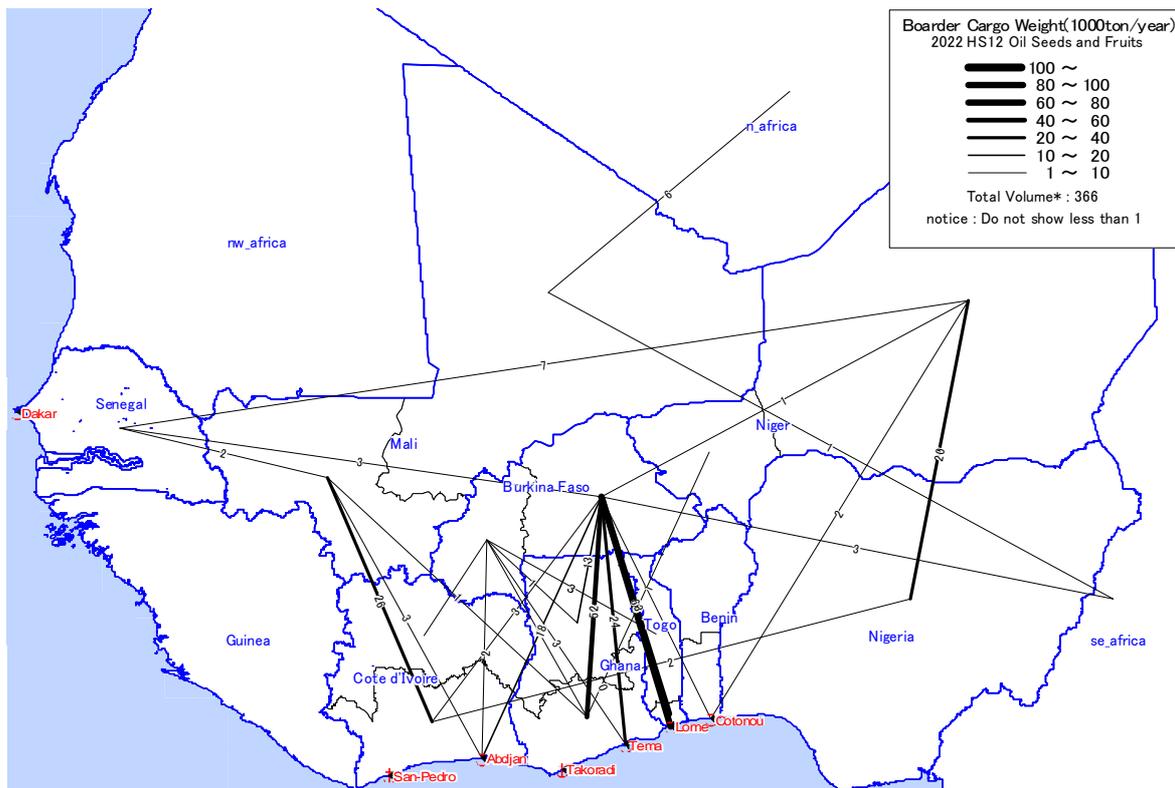


Figure 9-14 Flow of Future (2022) freight demand ('000t/year):  
HS12 Oil Seeds and Oleaginous Fruits

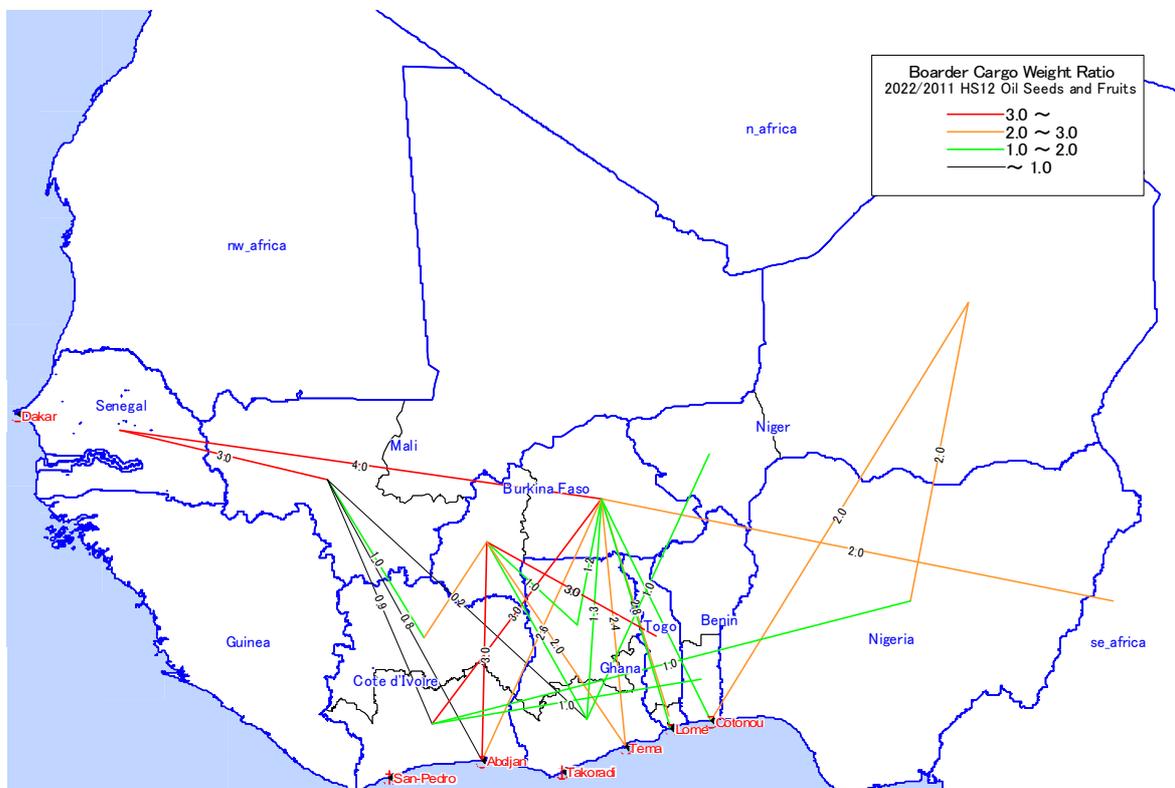


Figure 9-15 Growth freight demand (2022/2011): HS12 Oil Seeds and Oleaginous Fruits

Source: JICA survey team

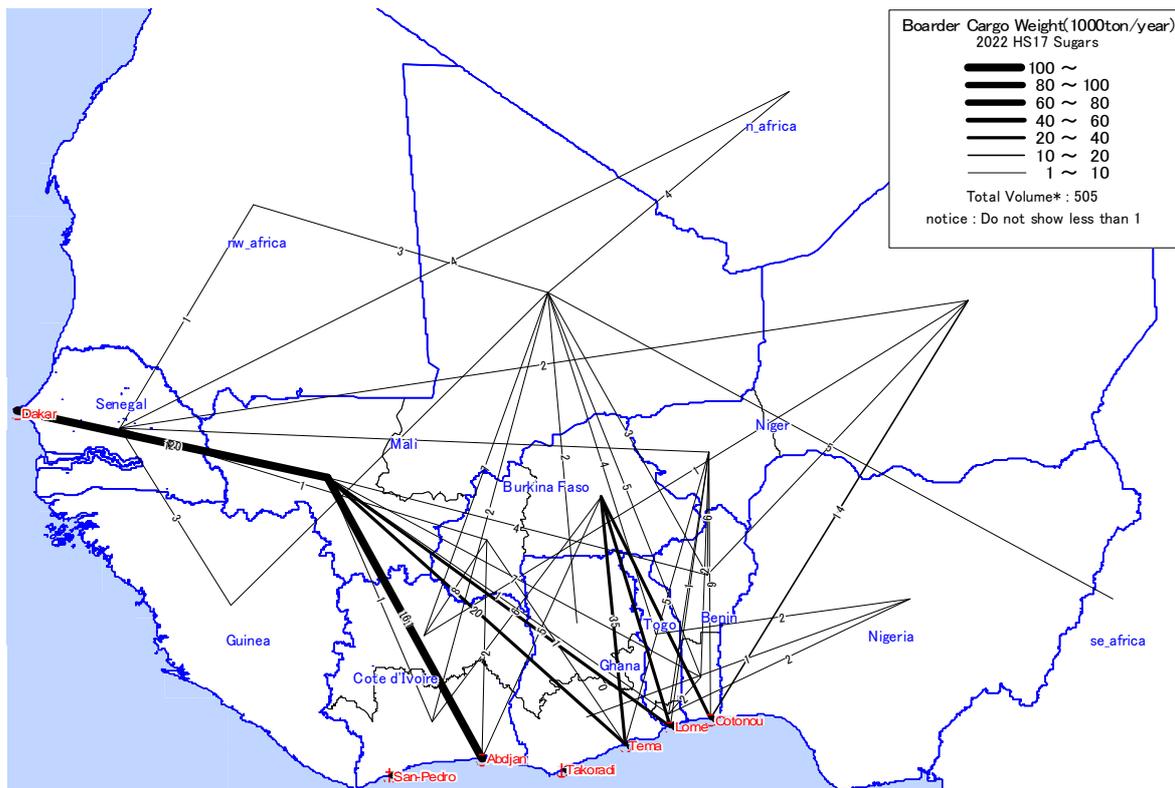


Figure 9-16 Flow of future (2022) freight demand ('000t/year)  
HS17: Sugars and Sugar Confectionery

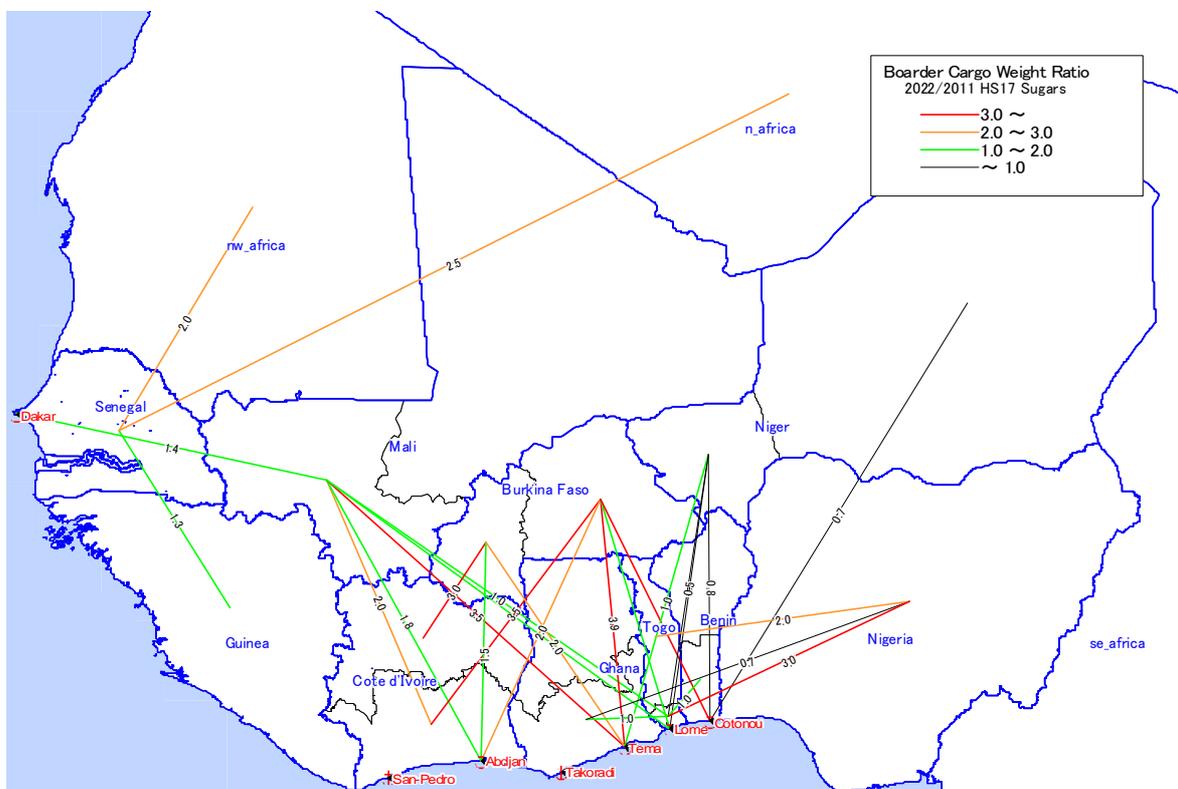


Figure 9-17 Growth freight demand (2022/2011): HS17: Sugars and Sugar Confectionery

Source: JICA survey team

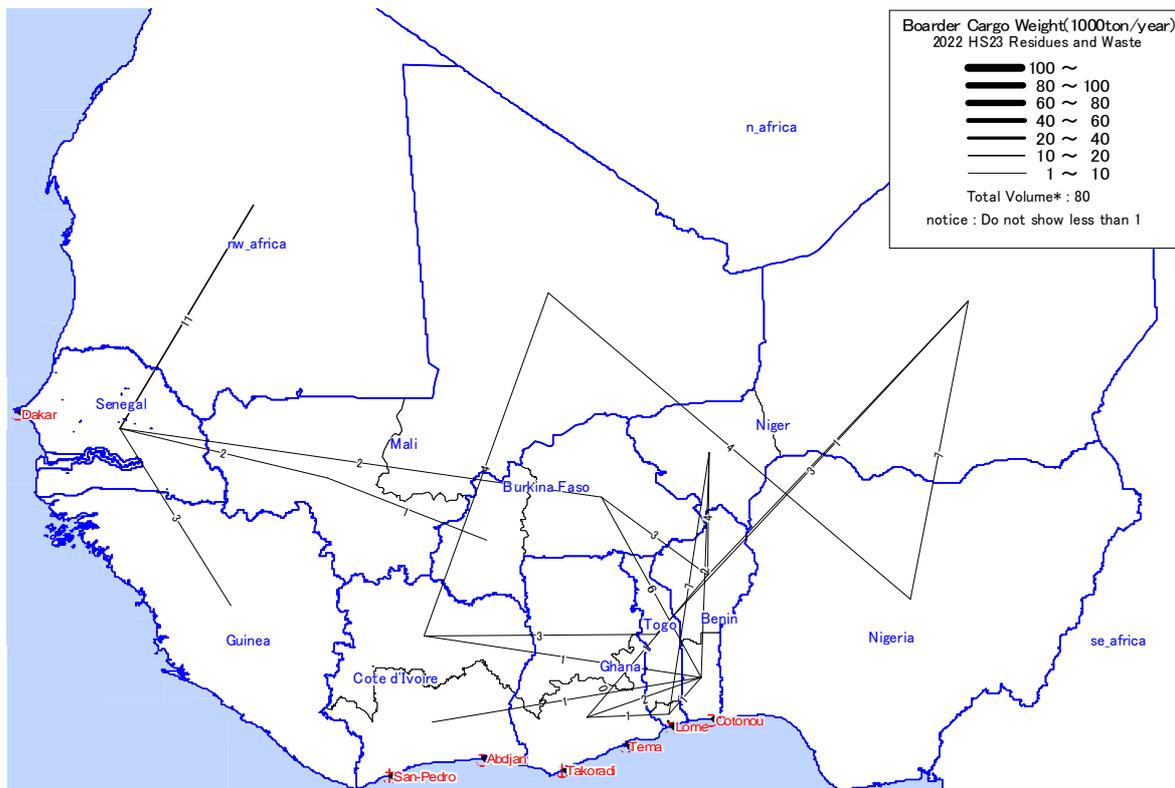


Figure 9-18 Flow of future (2022) freight demand ('000t/year)  
HS23 Residues from the Food Industries

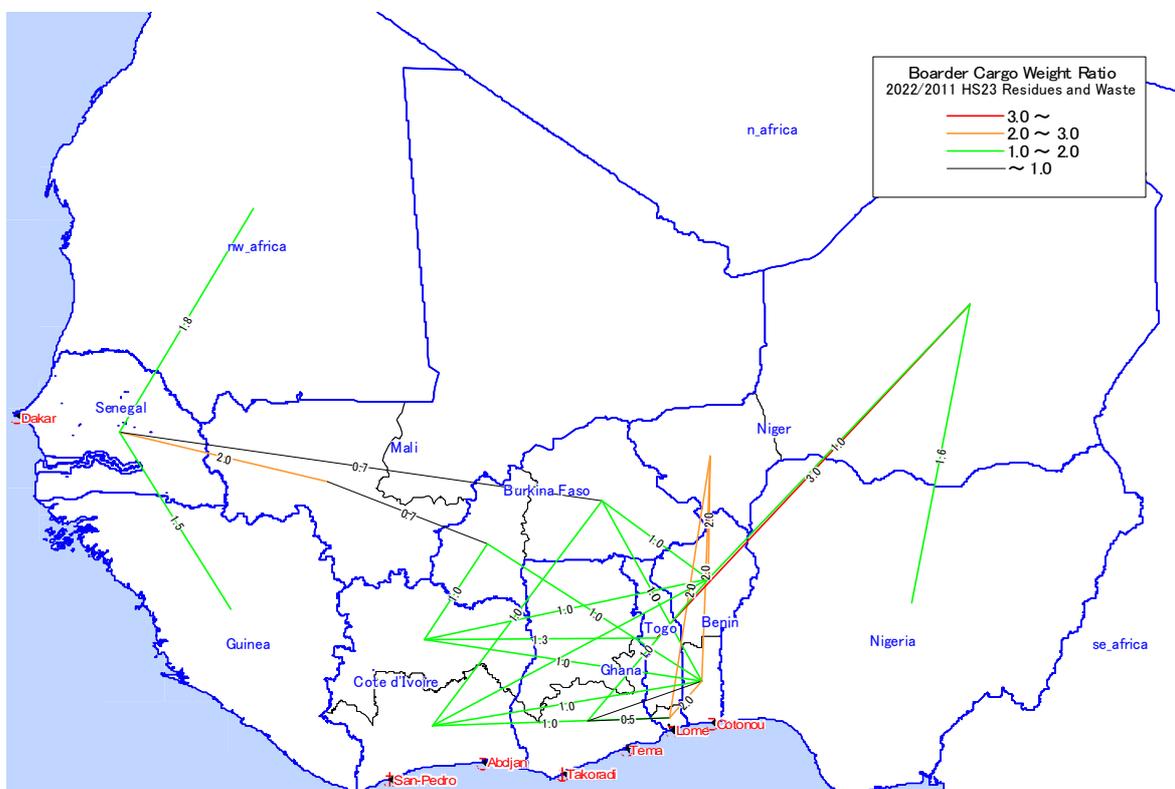


Figure 9-19 Growth freight demand (2022/2011): HS23 Residues from the Food Industries

Source: JICA survey team

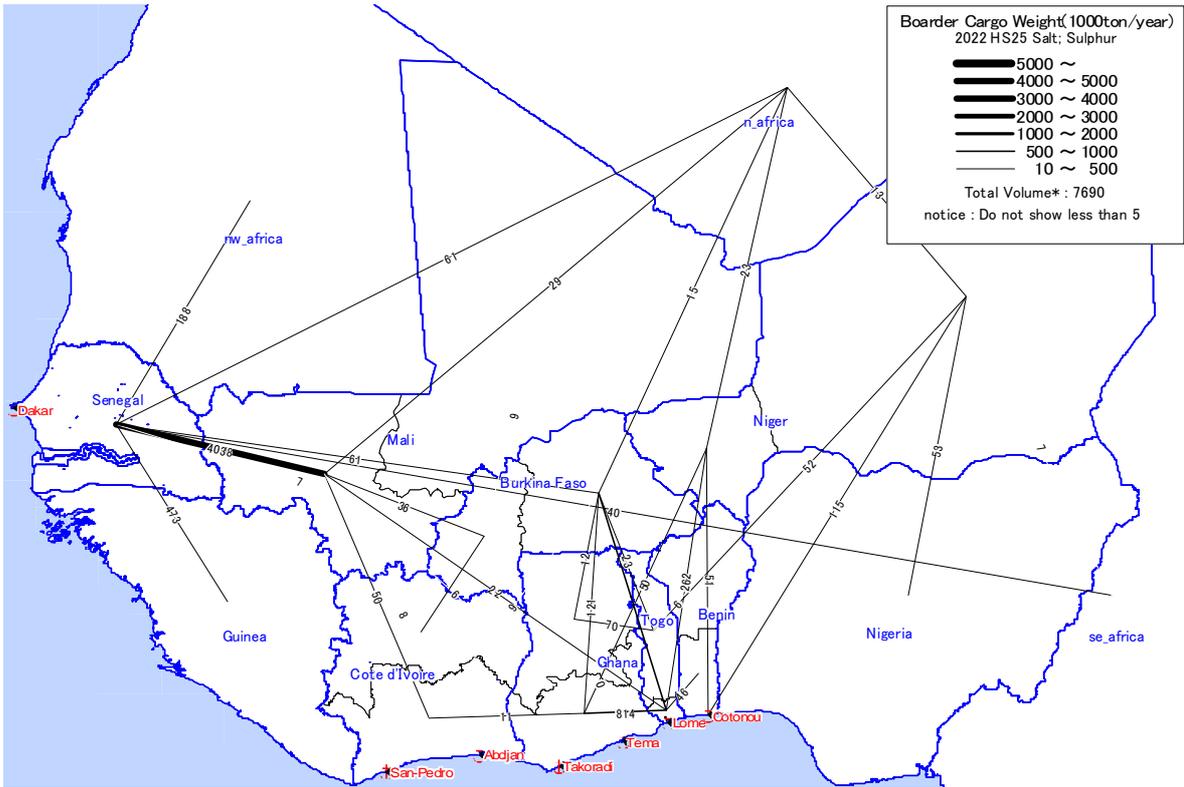


Figure 9-20 Flow of future (2022) freight demand ('000t/year): HS25 Cement; Salt & Sulphur

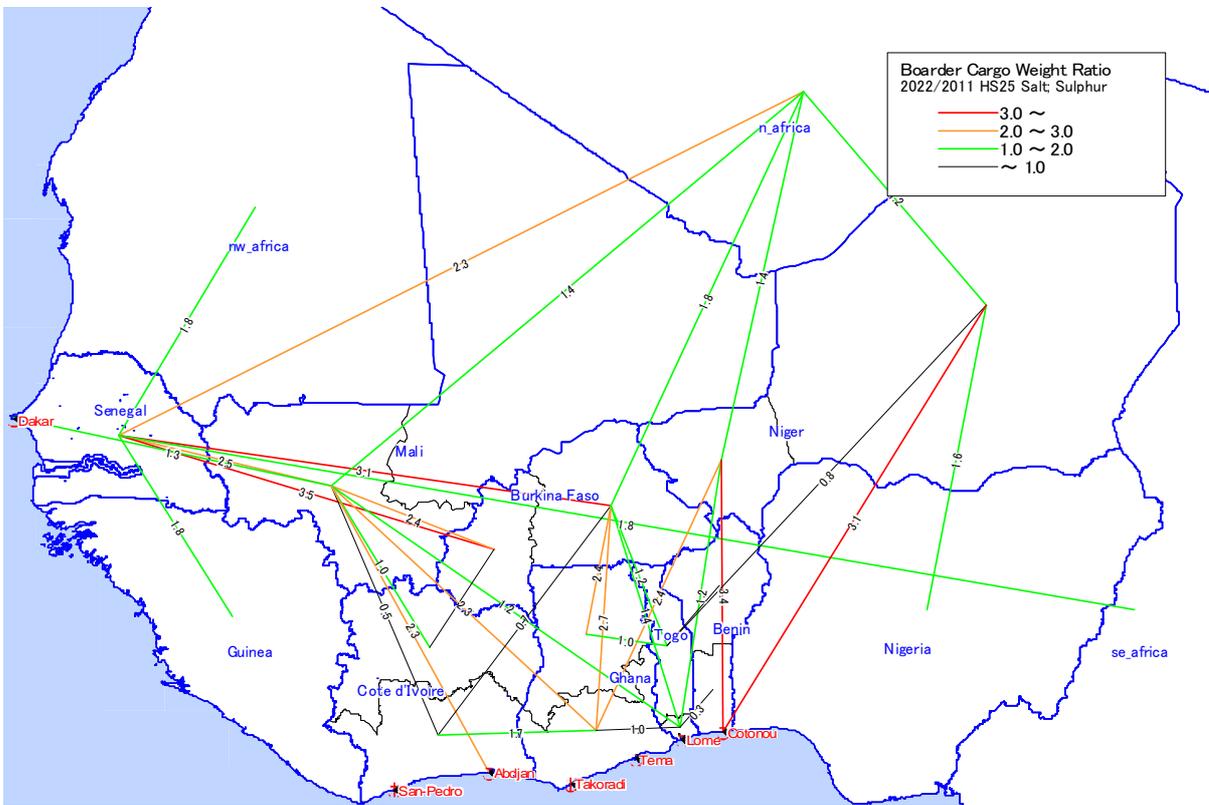


Figure 9-21 Growth freight demand (2022/2011): HS25 Cement; Salt & Sulphur

Source: JICA survey team

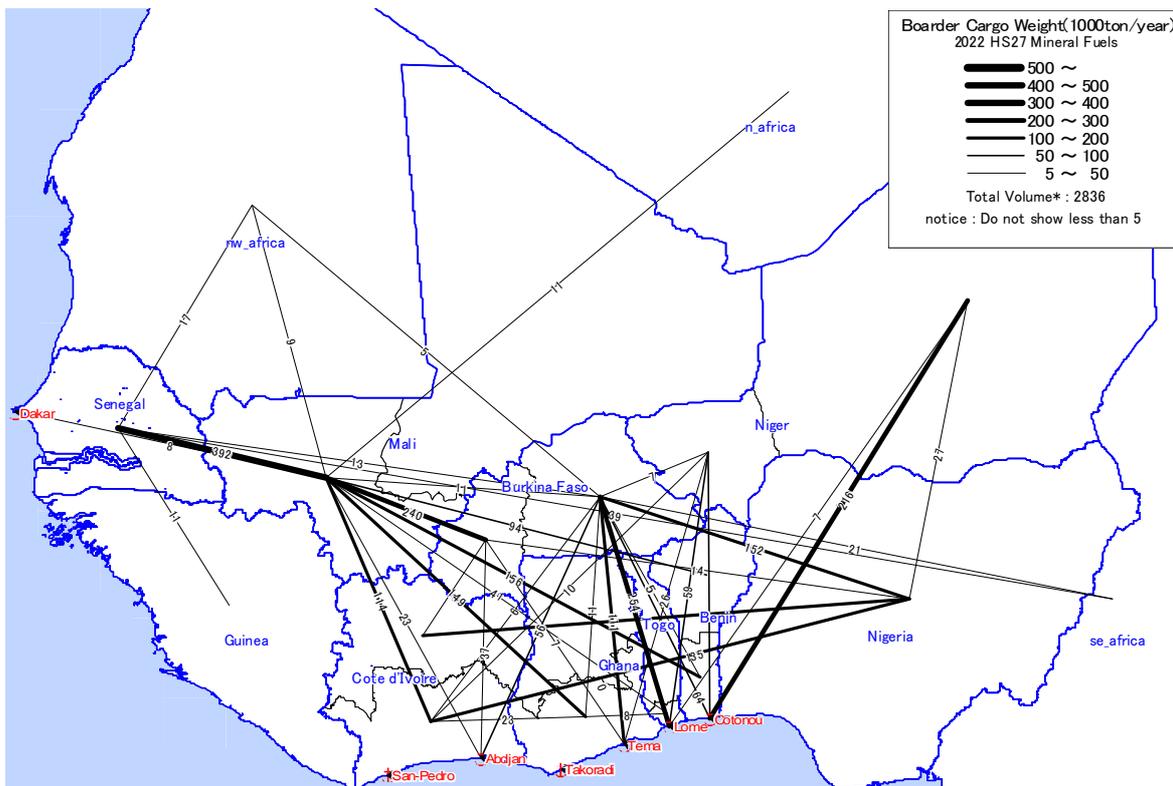


Figure 9-22 Flow of future (2022) freight demand ('000t/year): HS27 Mineral Fuels & Oils

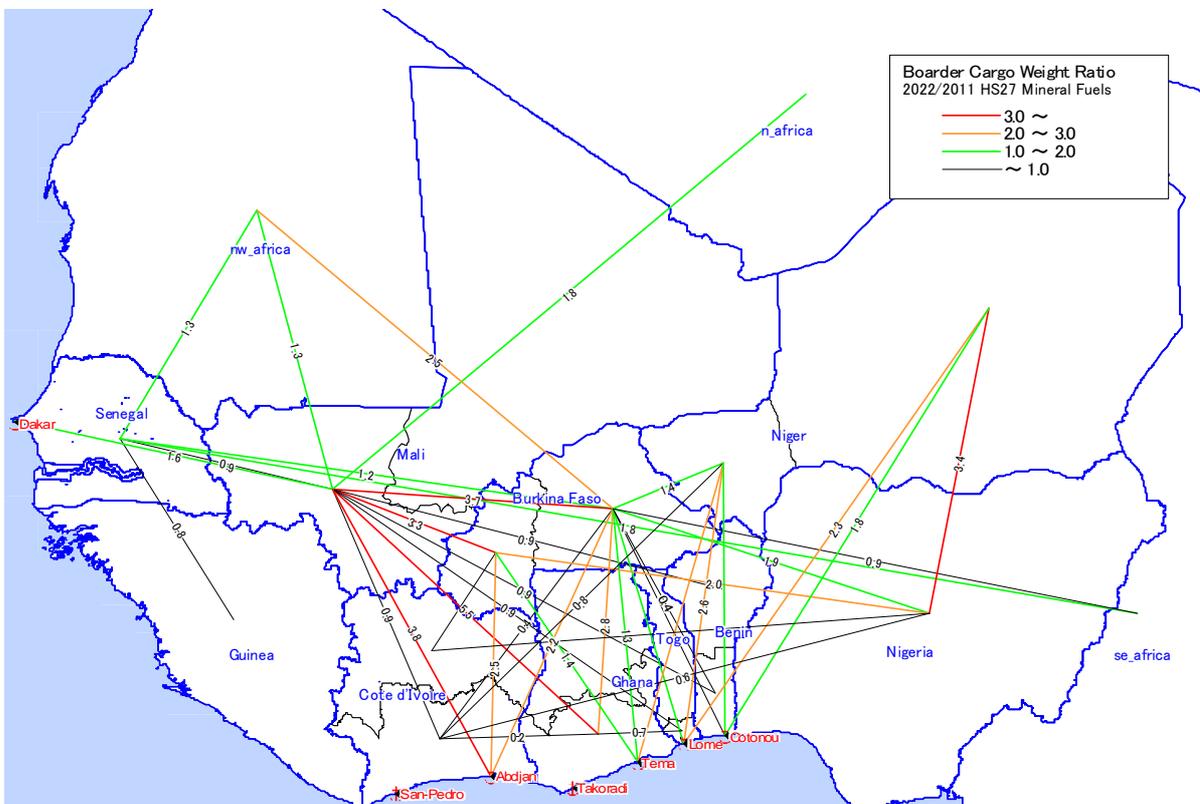


Figure 9-23 Growth freight demand (2022/2011): HS27 Mineral Fuels & Oils

Source: JICA survey team

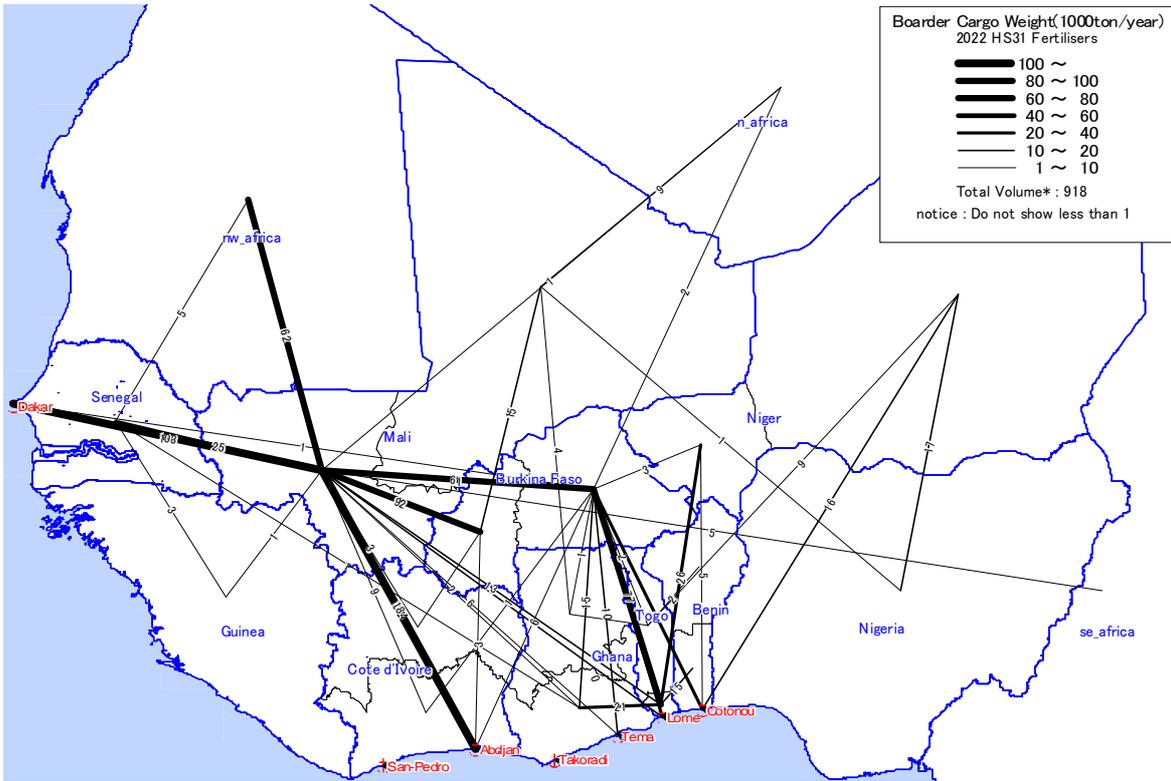


Figure 9-24 Flow of future (2022) freight demand ('000t/year):HS31 Fertilizers

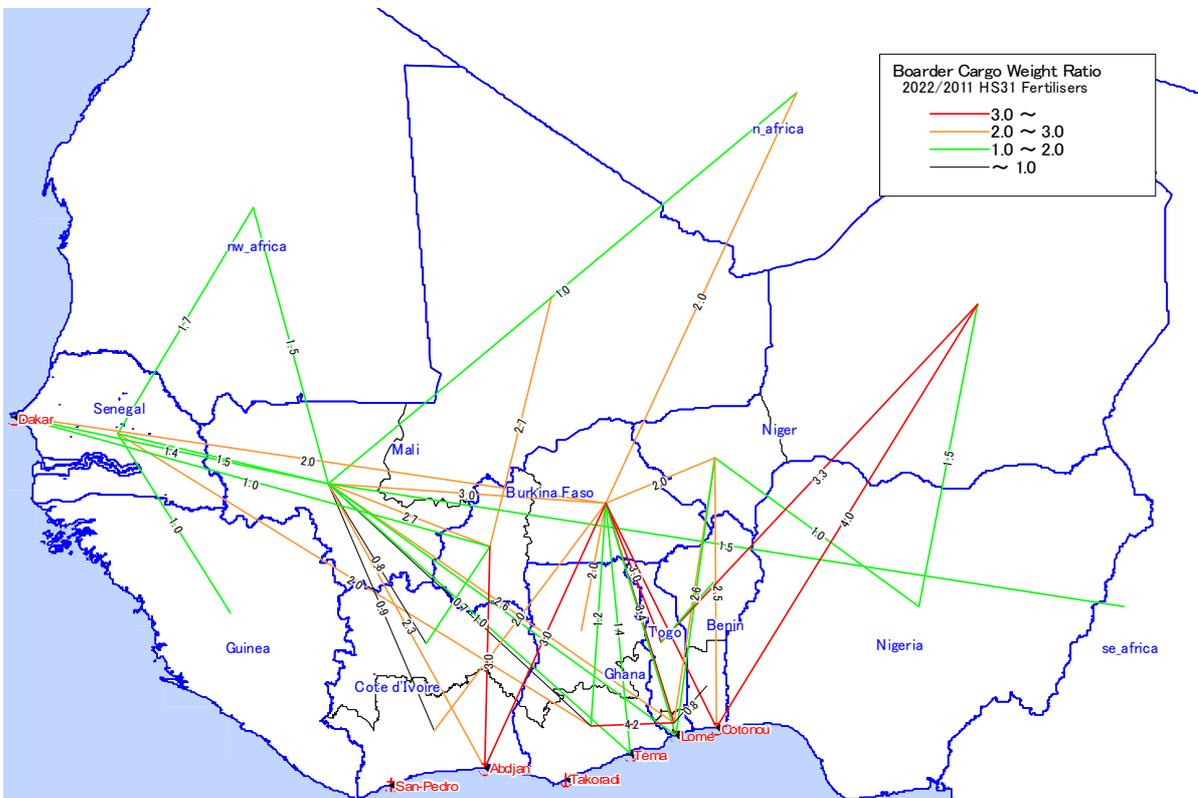


Figure 9-25 Growth freight demand (2022/2011): HS31 Fertilizers

Source: JICA survey team

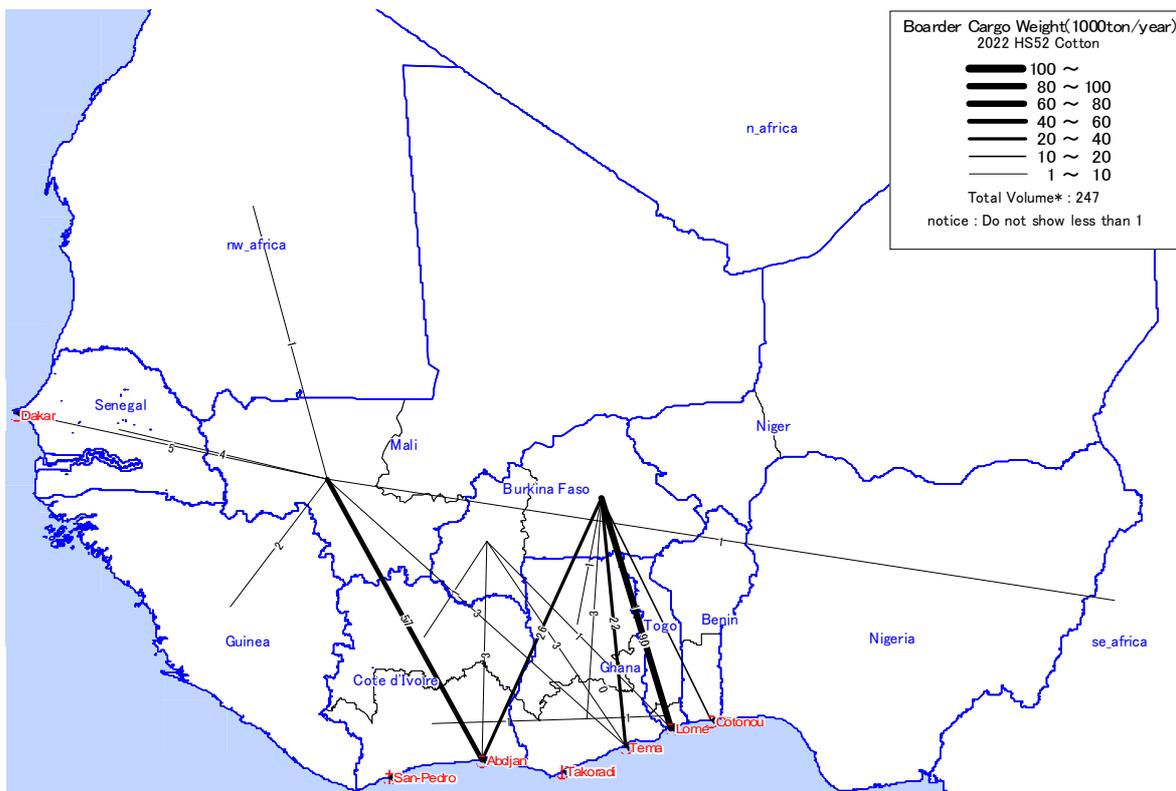


Figure 9-26 Flow of future (2022) freight demand ('000t/year): HS52: Cotton

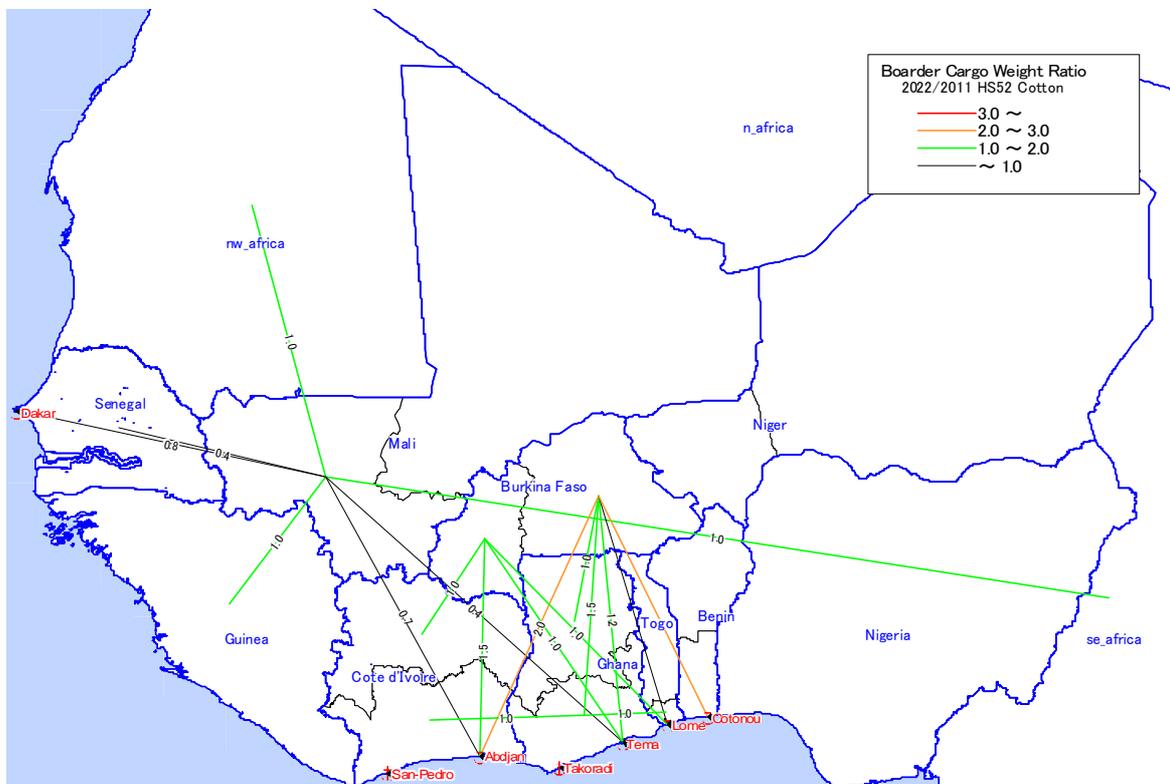


Figure 9-27 Growth freight demand (2022/2011): HS52 Cotton

Source: JICA survey team

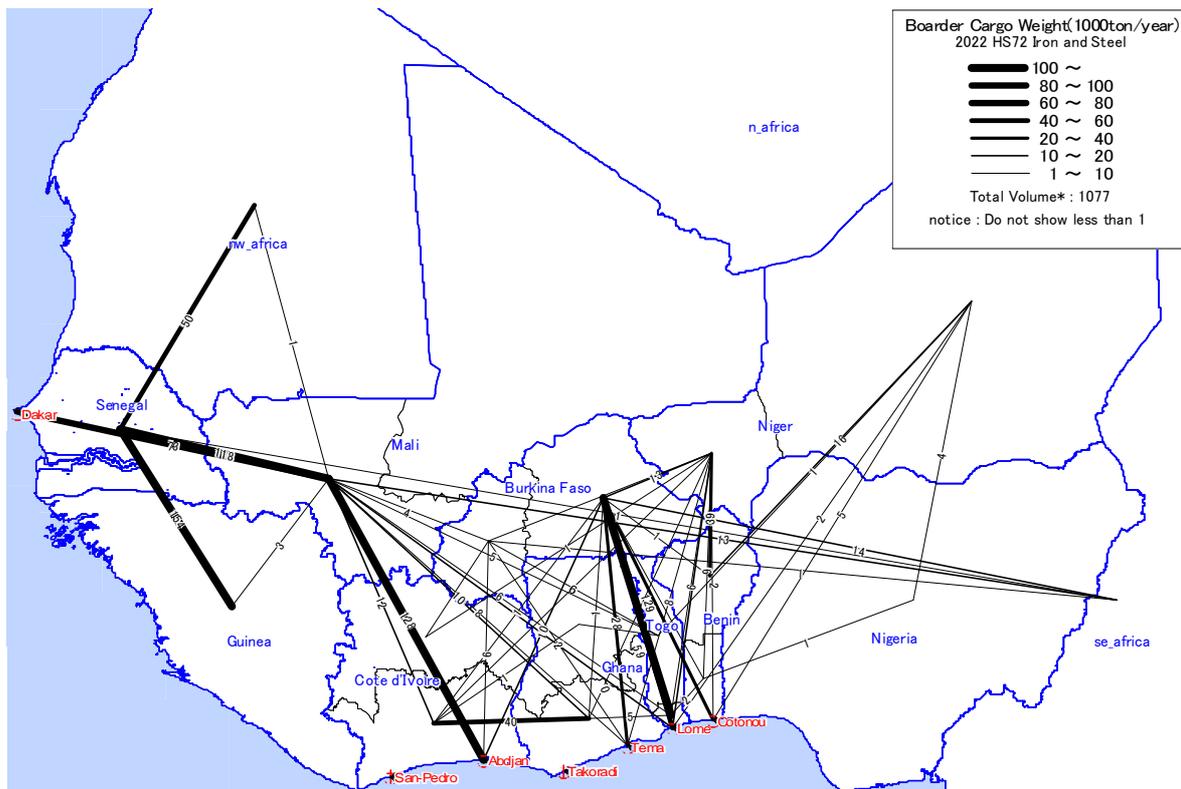


Figure 9-28 Flow of future (2022) freight demand ('000t/year): HS72 Iron and Steel

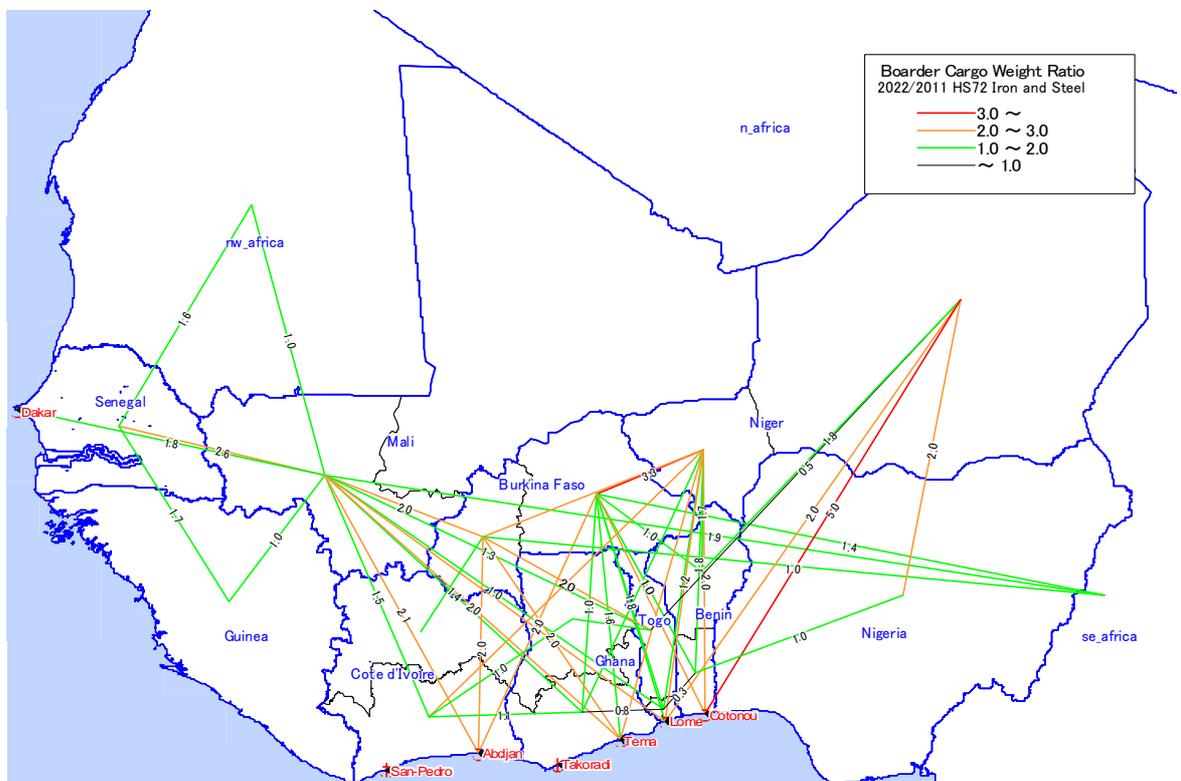


Figure 9-29 Growth freight demand (2022/2011): HS72 Iron and Steel

Source: JICA survey team

### 9.3.3 Forecast of traffic demand

#### (1) Forecast procedures

Future concentrated occurrence of motor traffic volume by vehicle type is obtained using future concentrated occurrence passenger traffic by zone and future concentrated occurrence Freight traffic, share of vehicles in current OD tables by vehicle type and conversion factors for the number of vehicle units and for annual average day. And then, based on the forecasted concentrated occurrence traffic volume by zone and current OD tables, future OD tables were forecasted through the present pattern method.

#### (2) Results of forecast

##### 1) Growth of traffic volume

Growth rates of concentrated occurrence traffic volume by vehicle type and by country are shown in the figures below.

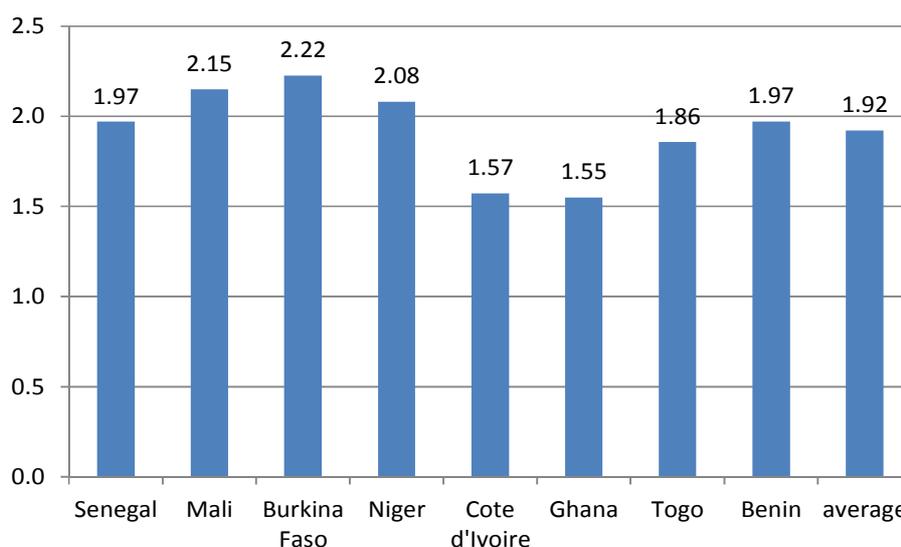
Growth rate of passenger cars is the highest in Burkina Faso and the lowest in Ghana. Average growth rate in the 8 target countries is 1.92 times (see Figure 9-30).

Growth rate of buses is the highest in Niger and the lowest in Ghana. Average growth rate in the 8 target countries is 1.98 times (see Figure 9-31).

Growth rate of small-sized freight trucks is the highest in Burkina Faso and the lowest in Cote d'Ivoire. Average growth rate in the 8 target countries is 1.65 times (see Figure 9-32).

Growth rate of large-sized freight trucks is the highest in Senegal and the lowest in Cote d'Ivoire. Average growth rate in 8 target countries is 1.57 times (see Figure 9-33).

Growth rate of all vehicles is the highest in Niger and the lowest in Cote d'Ivoire. Average growth rate in 8 target countries is 1.82 times (see Figure 9-34).



**Figure 9-30 Growth rate of traffic volume (Passenger Cars) by country (2022/2011)**

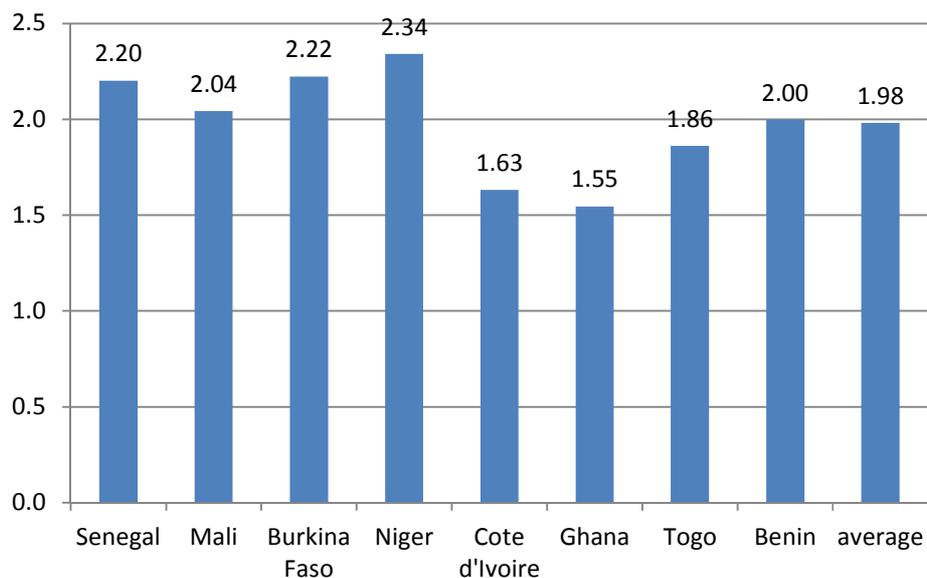


Figure 9-31 Growth rate of traffic volume (Bus) by country (2022/2011)

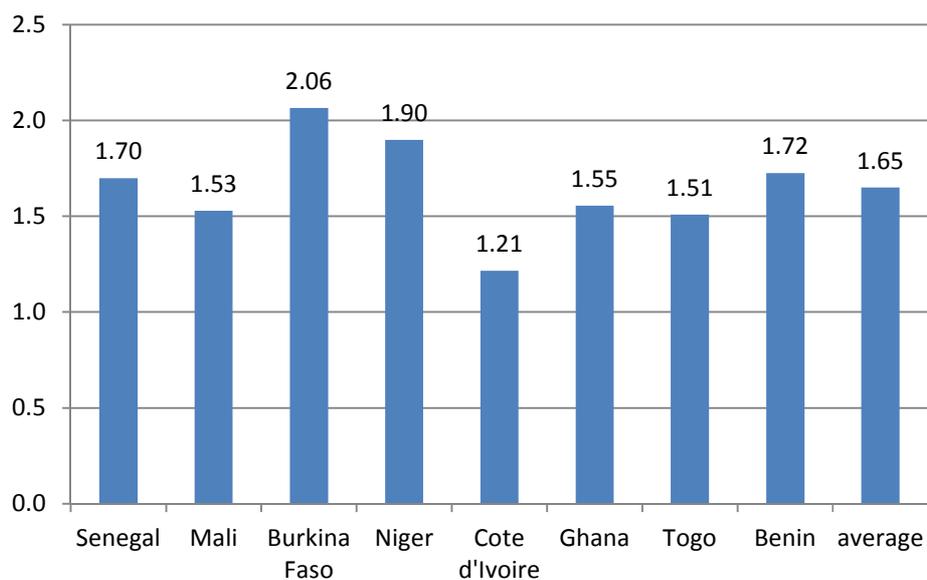


Figure 9-32 Growth rate of traffic volume (Light trucks) by country (2022/2011)

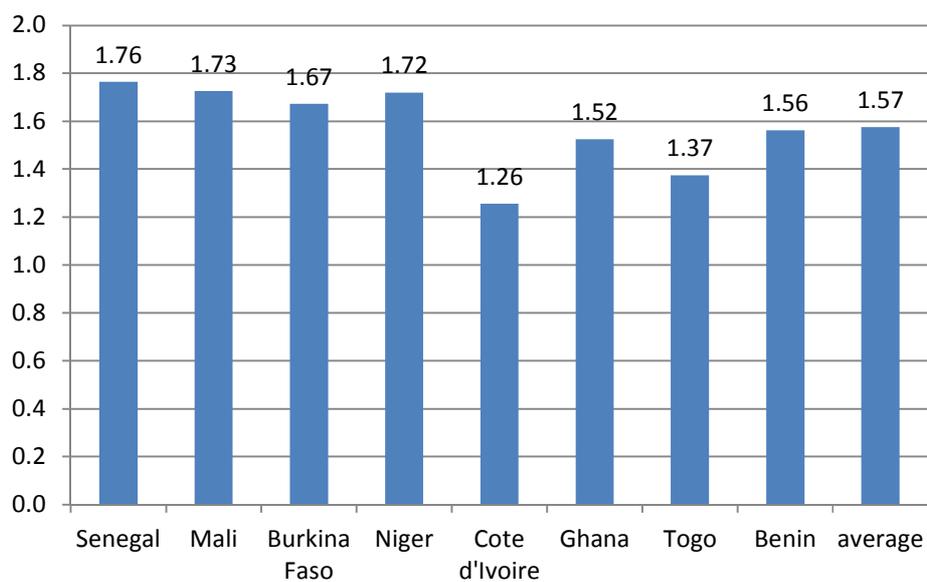


Figure 9-33 Growth rate of traffic volume (Heavy trucks) by country (2022/2011)

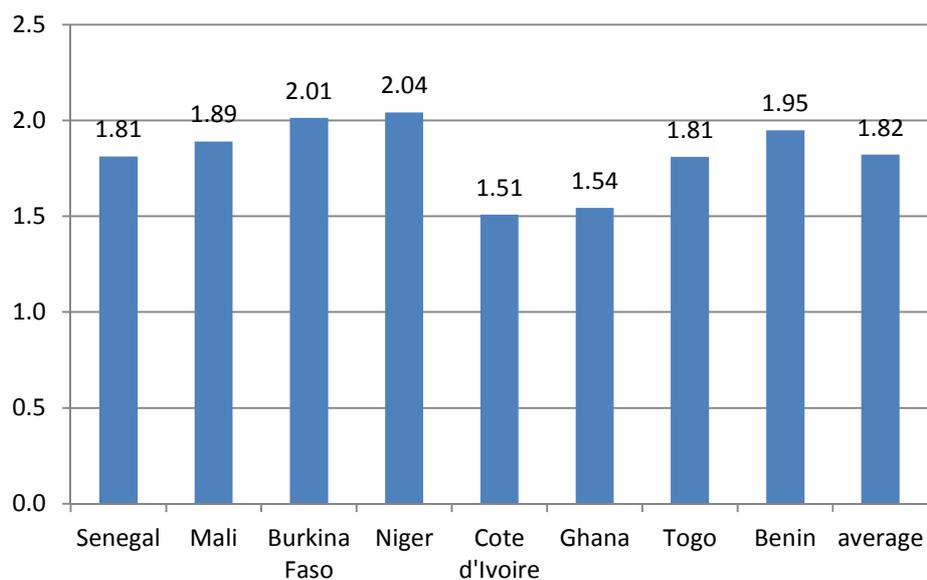


Figure 9-34 Growth rate of traffic volume (All Vehicles) by country (2022/2011)

## 2) OD traffic volume

Flow map indicating the number of vehicles (2022) and growth rate (2022/2011) by vehicle type are shown in Figures from 9-35 to 9-44. Major characteristics found in flow by vehicle type are shown below (see Table 9-7).

Future cross-border traffic demand for all vehicles (2022) obtained based on demands for passengers and freight will be 27,330 veh./day, which represents about 1.8 times the current figure. In the subject area, it is expected landlocked countries' populations will grow as well and imports/exports will increase as the economies expand. As a result, the growth rate of traffic between landlocked countries and coastal countries will be higher.

**Table 9-6 Future road traffic demand**

	From landlocked countries to coastal countries	Between landlocked countries	Between coastal countries	Others	Total
Present	4,720	341	9,980	177	15,218
Future (2022)	9,217	802	17,009	302	27,330
Increased volume	4,497	461	7,028	125	12,112
Rate of increase	2.0	2.4	1.7	1.7	1.8

1) There are 3 landlocked countries. They are Mali, Burkina Faso and Niger (OD zone: 2-7).

2) The coastal countries include the Gulf of Guinea countries, which are Senegal, Nigeria and other countries in between (OD zone: 1, 8-17 and 21-27).

Source: JICA survey team

**Table 9-7 Characteristics of traffic flow by vehicle type in 8 target countries**

	Characteristics
Passenger car	Traffic volume is the largest between southern Togo and southern Benin and between southern Cote d'Ivoire and southern Ghana. Growth rate is higher for flow in relation to inland countries.
Bus	Traffic volume is the largest between southern Togo and southern Benin, while it is more widely distributed than flow of passenger cars. Growth rate is higher for flow in relation to inland countries.
Small-sized freight truck	Traffic volume is larger between southern areas of coastal countries. It is larger between eastern Niger and Nigeria and between western Niger and northern Benin. Growth rate is higher for flow in relation to eastern Burkina Faso.
Large-sized freight trucks	Traffic volume is the largest for flow between Mali and Senegal followed by flow between southern Ghana and southern Togo. Growth rate is higher for flow in relation to eastern Burkina Faso.
All vehicle types	Traffic volume is the largest for flow between southern Togo and southern Benin, followed by flow between southern Cote d'Ivoire and southern Ghana. Growth rate is higher for flow in relation to inland countries.

Source: JICA survey team

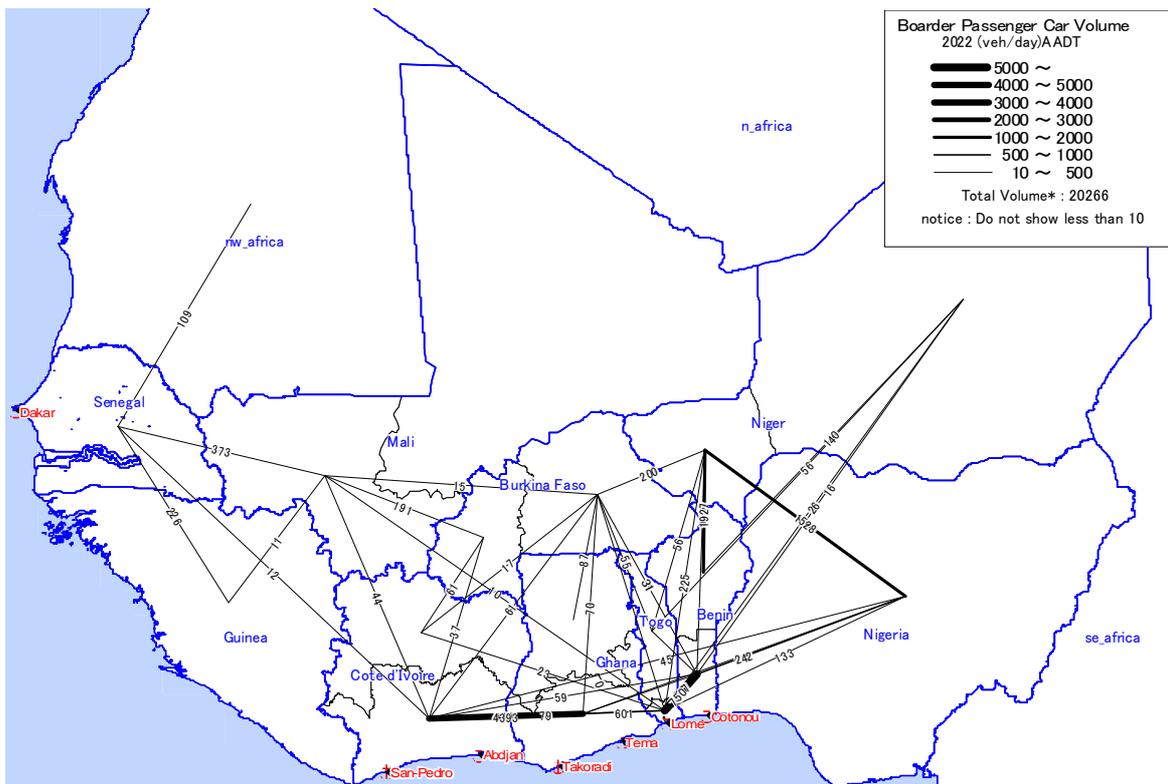


Figure 9-35 Flow of future (2022) traffic demand (All vehicles: Veh./day)

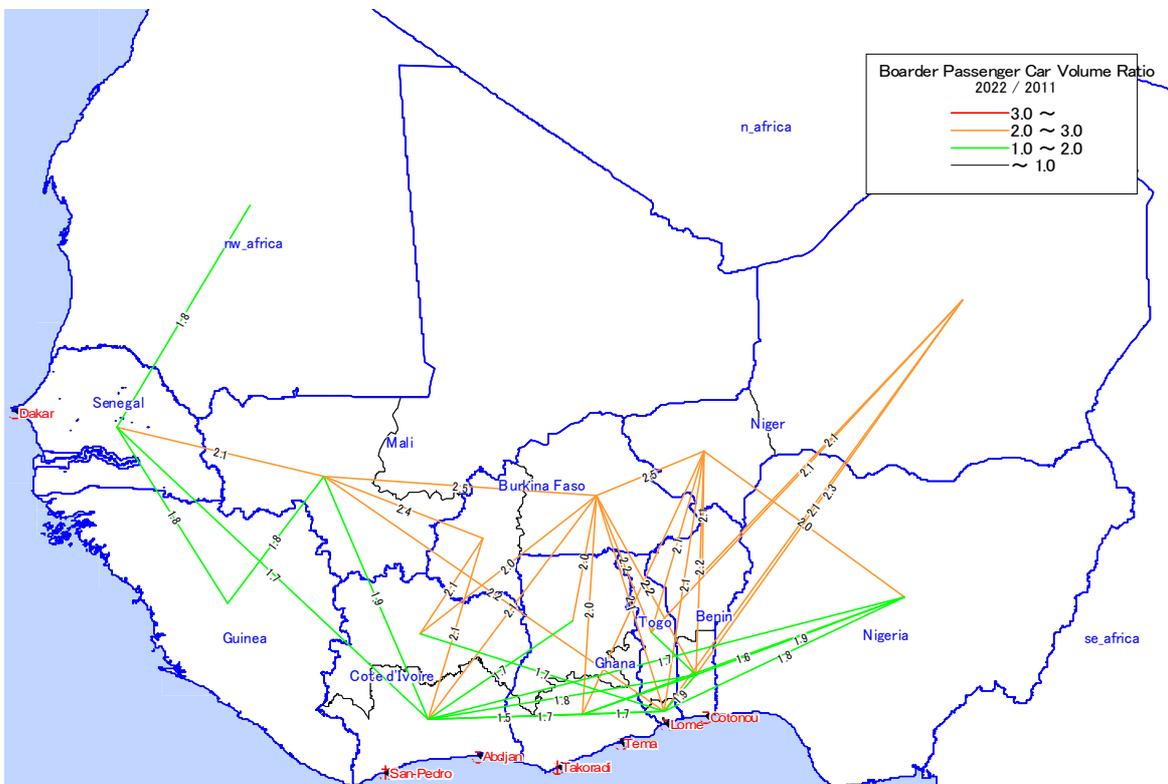


Figure 9-36 Growth of passenger car traffic demand (2022/2011)

Source: JICA survey team

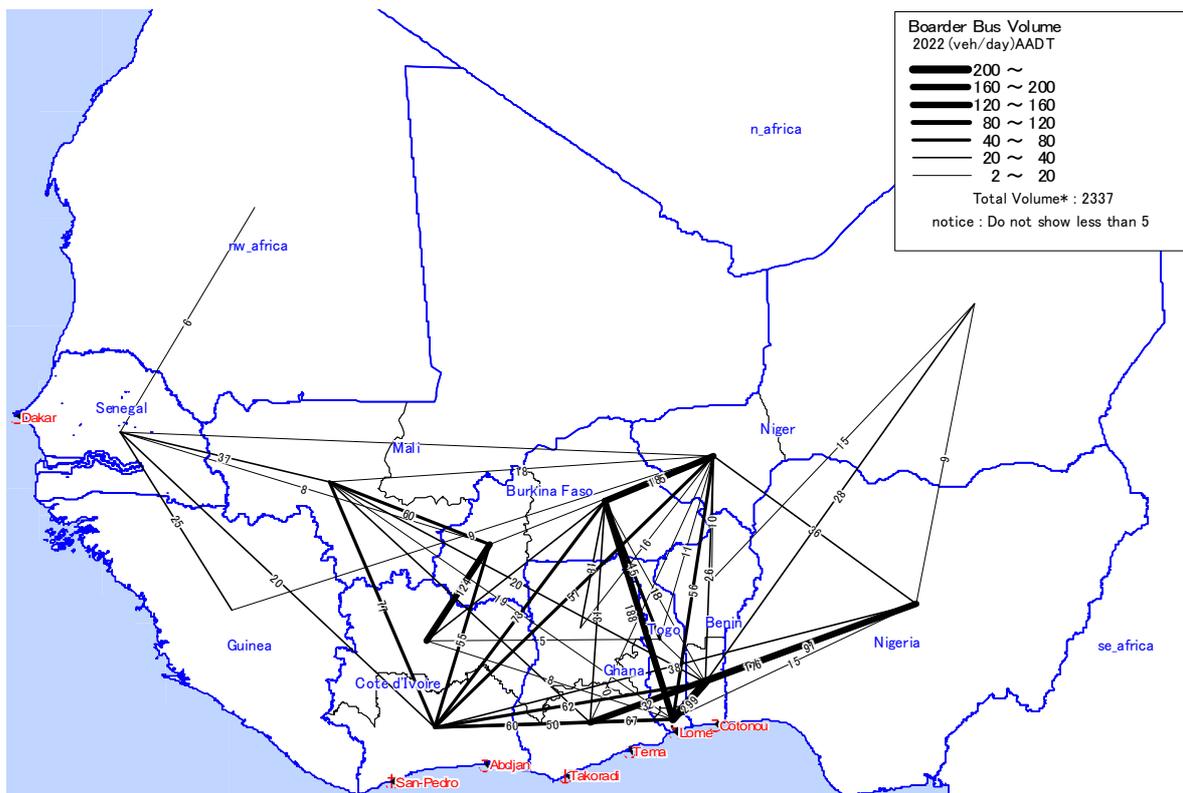


Figure 9-37 Flow of future (2022) traffic demand (Bus: Veh./day)

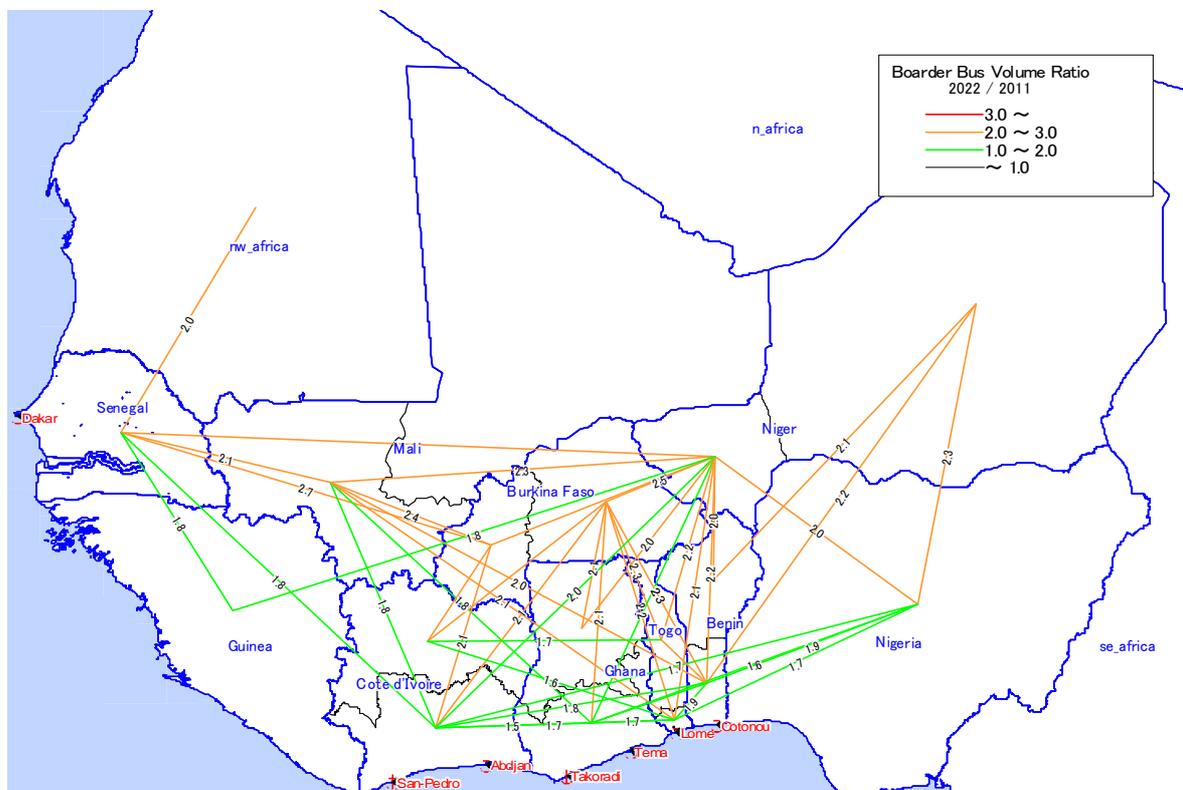


Figure 9-38 Growth of Bus traffic demand (2022/2011)

Source: JICA survey team

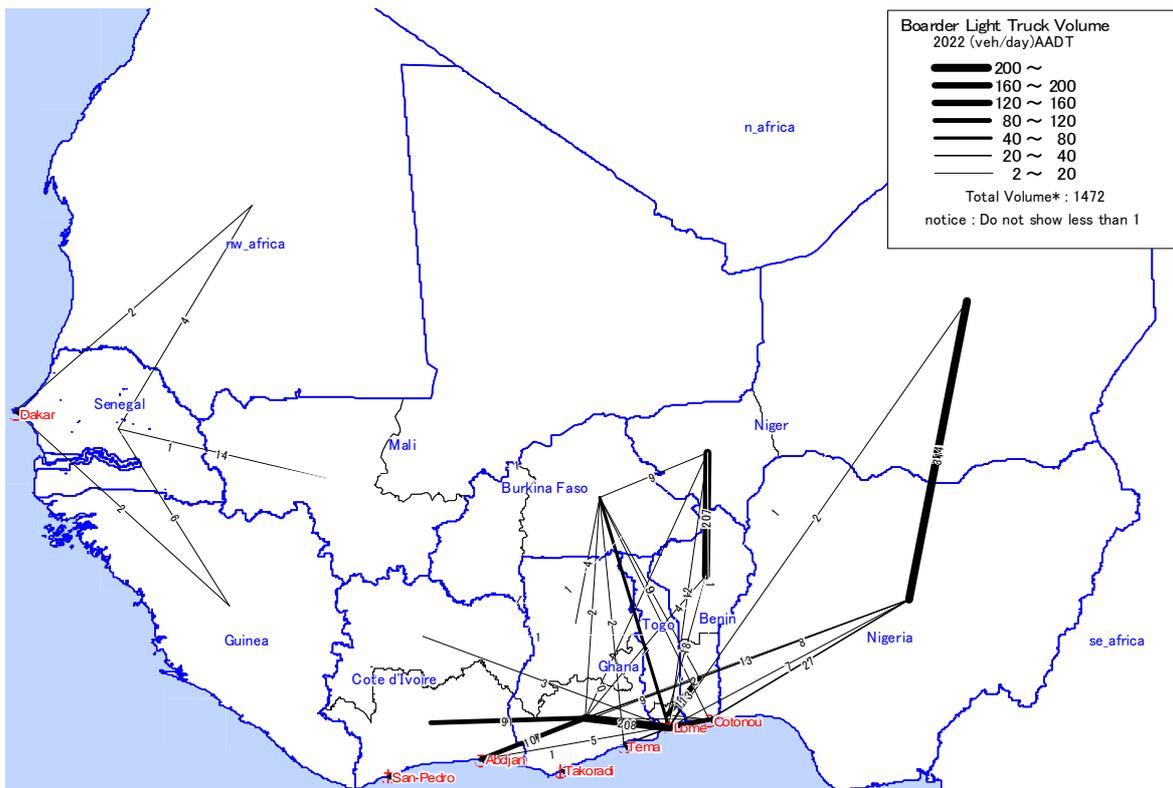


Figure 9-39 Flow of Future (2022) traffic demand (Light truck: Veh./day)

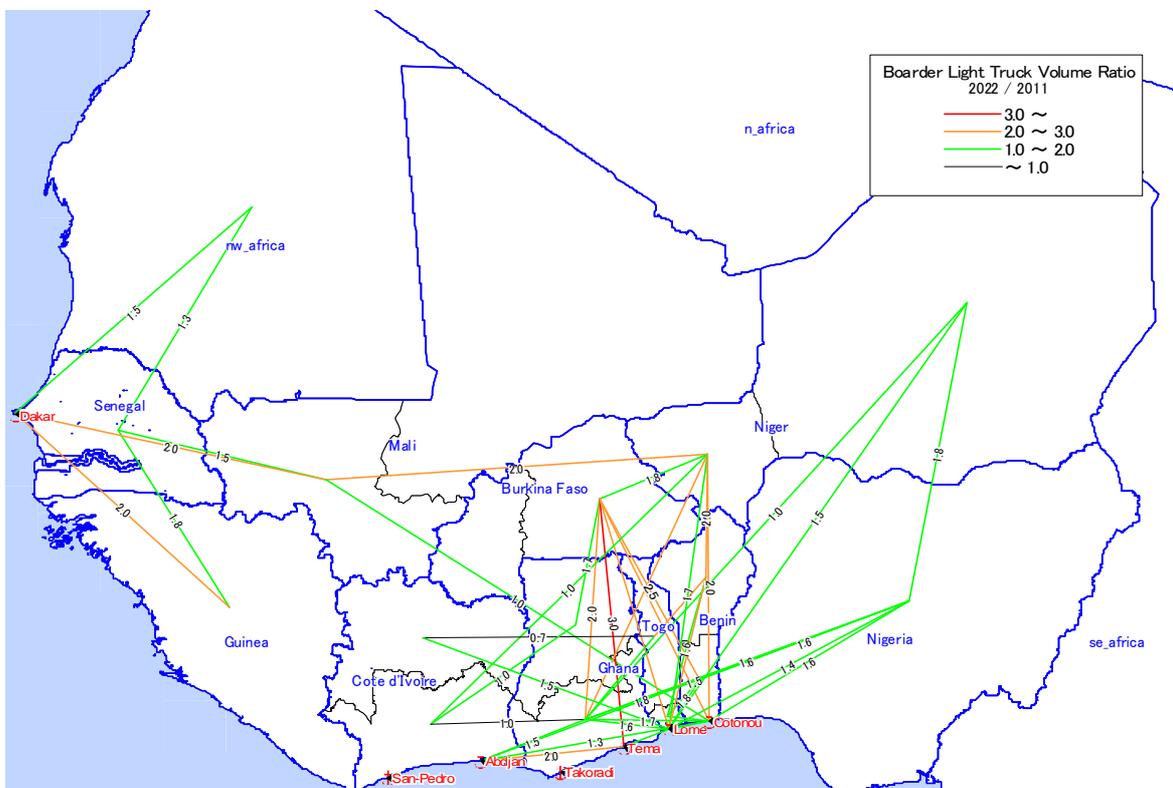


Figure 9-40 Growth of Light truck traffic demand (2022/2011)

Source: JICA survey team

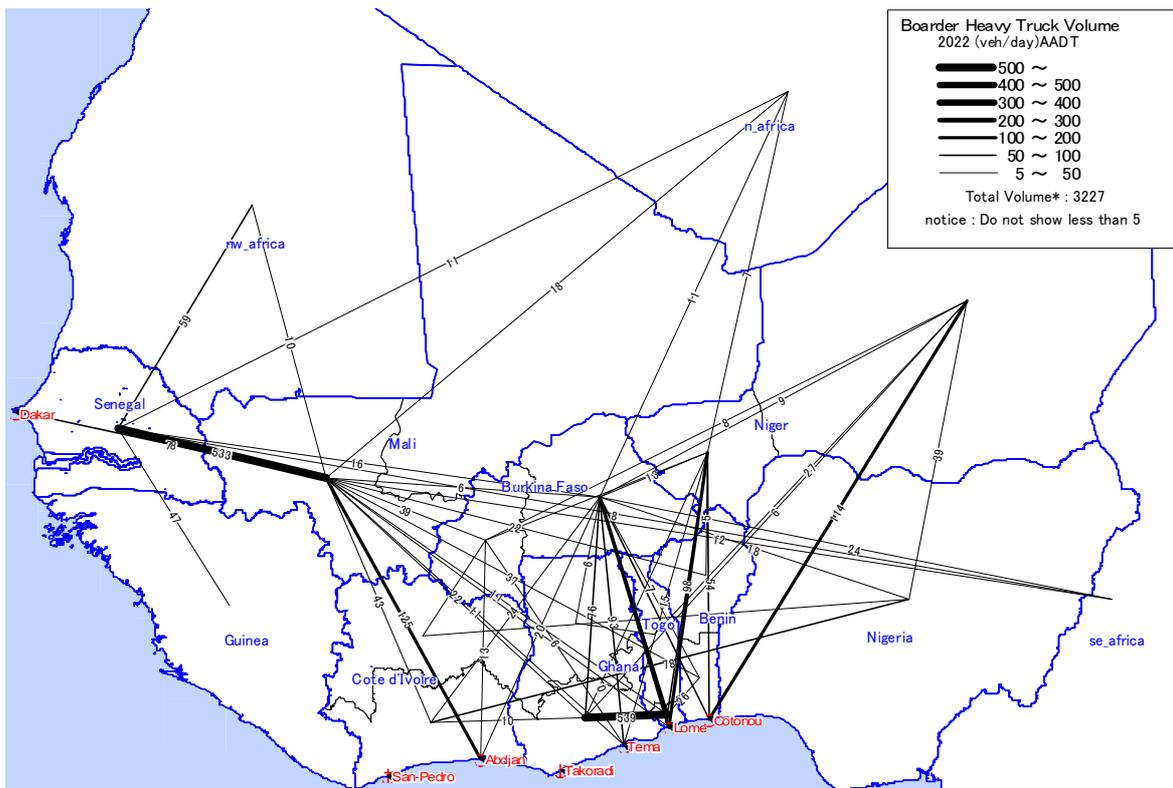


Figure 9-41 Flow of Future (2022) traffic demand (Heavy truck: Veh./day)

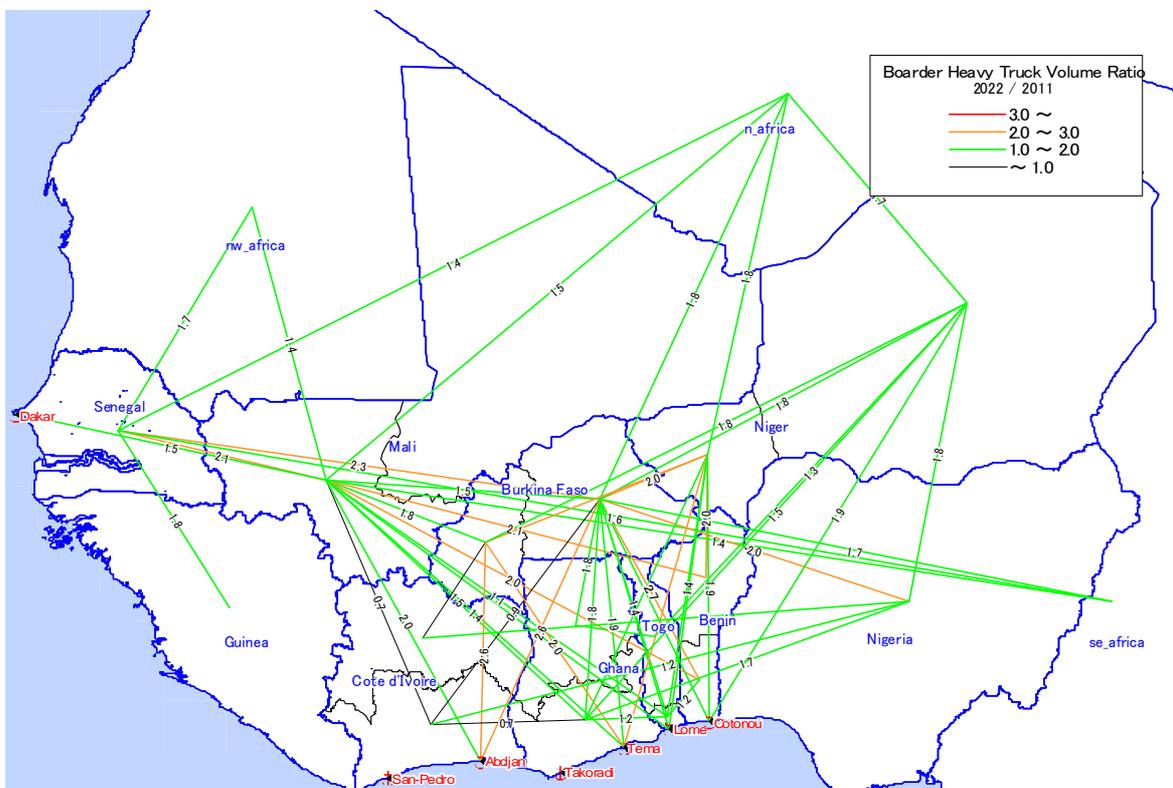


Figure 9-42 Growth of Heavy truck traffic demand (2022/2011)

Source: JICA survey team

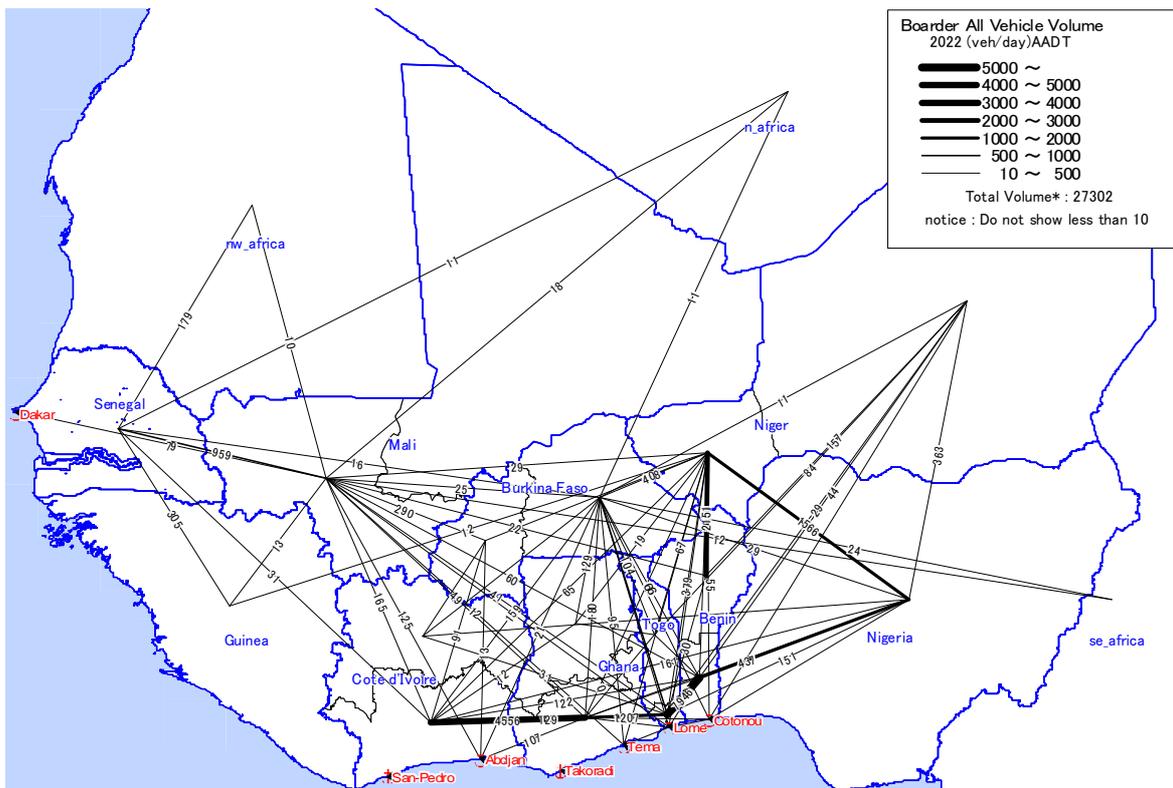


Figure 9-43 Flow of future (2022) traffic demand (All vehicles: Veh./day)



Figure 9-44 Growth of All vehicles traffic demand (2022/2011)

Source: JICA survey team

### **9.3.4 Road Traffic Assignment**

From the results of a process of traffic assignment among the UEMOA corridors, it is found that, of corridors connecting landlocked countries and areas where a port is located, the Ouagadougou-Lomé corridor will be the largest traffic volume, with 1,109 veh./day. It represents about 1.8 times of the present figure. Following this is the Niamey-Cotonou corridor, where the traffic will be 1,075 veh./day. In future, road traffic volume will vary depending on the transport conditions of ports and corridors.

Future OD tables for all vehicle types (2022) prepared in 1.3.3 were allocated on future road networks. Future traffic volume for each road route is shown in Figure 9-45 and growth of traffic volume for each road route (2022/2011) is shown in Figure 9-46.

Sections with higher traffic volume are corridors running from east to west in southern parts of coastal countries, with approximately 9,500 veh./day between Benin and Togo.

In inland countries, traffic volume is larger between Niger and Benin, with approximately 4,500 veh./day.

Future growth rate over the current figure is approximately 2.0 times between Mali and Senegal and in an area near the border of Niger, Burkina Faso and Benin. In other roads connecting coastal countries and inland countries, growth rate is mostly over 1.8 times, indicating traffic on roads in relation to inland countries will have a higher growth rate.

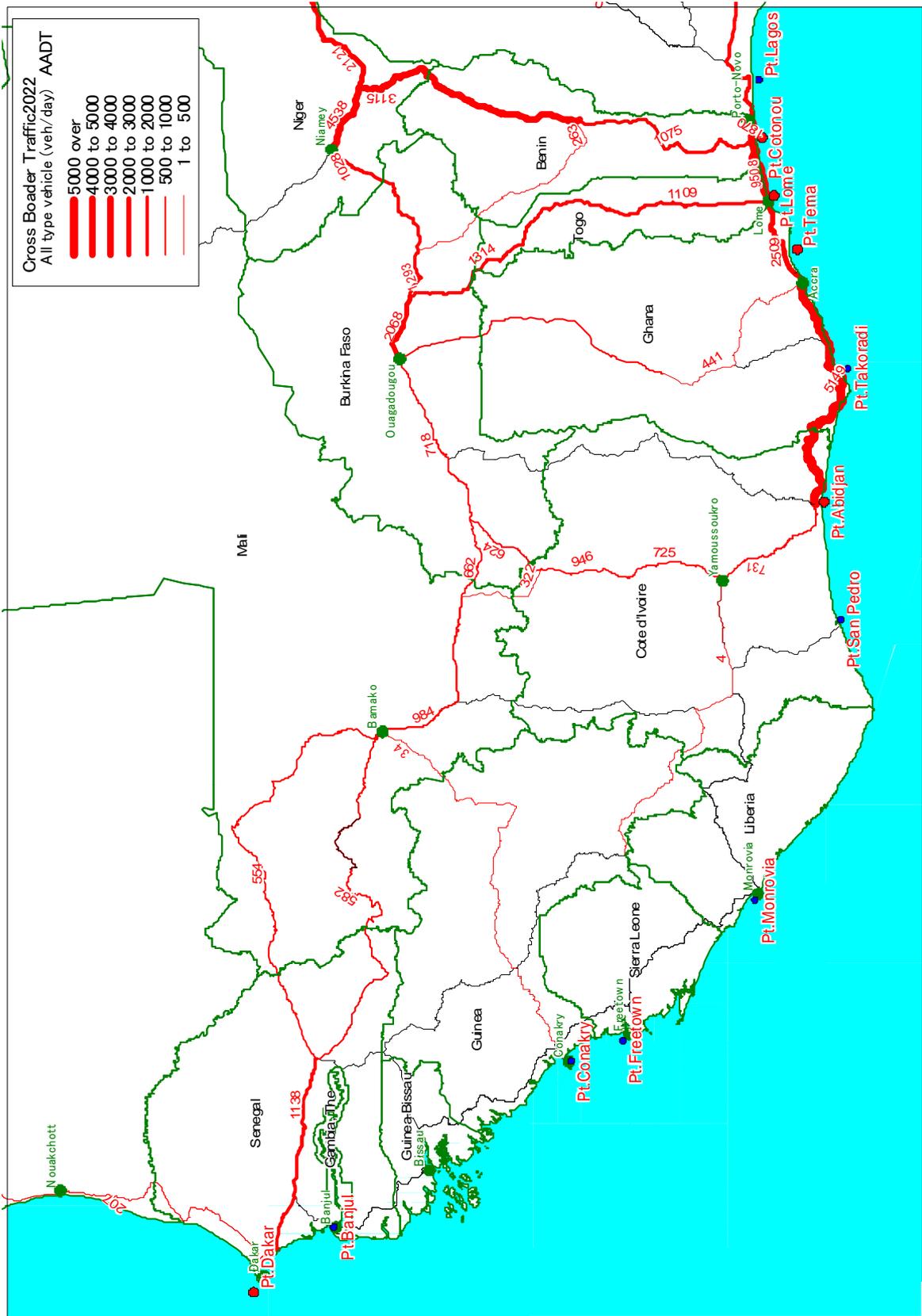


Figure 9-45 Result of the future road traffic volume (All vehicles: veh. /day)

Source: JICA Study team





## **Chapter 10 ISSUES AND DIRECTION FOR PROMOTION OF IMPROVEMENT OF INTERNATIONAL CORRIDOR**

This study has revealed the current state of the cross-border traffic in the study area. The analysis of the findings of the study has confirmed a large movement of people and goods between the densely populated coastal countries where geographic distances between major cities are small.

Meanwhile, the Study Team has been able to confirm that most of the transport to and from the three landlocked countries is with the countries with trading ports. The study has found a characteristic that Lomé port Cotonou port which have limited volume of import and export freight transport to and from them, in particular, handle a large portion of transit freight to and from the landlocked countries. The study has also found that ca. half of the traffic volume on the international corridors is that of large trucks and that the volumes of the transit freight and the freight traded within the study area on the corridors are approximately the same.

The above-mentioned study results have proven the indispensability of the road infrastructure which forms the international corridors as basic infrastructure which supports movement within the area and composes part of the framework of the area. The landlocked countries which have to import the majority of everyday goods can emphasize the importance of the international corridors as major transport infrastructure, because they are the trading routes to the trading ports and gateways to foreign countries, on which economic activities and development in the countries depend. If the political and economic stability of the countries in the area is maintained in future, the volume of traffic between the landlocked and coastal countries is expected to double in the next ten years. As a consequence, the importance of the road infrastructure is expected to increase further. The following summarizes the tasks for the development of the study area and the improvement of the transport infrastructure.

### **10.1 Importance of the International Corridors in the Social Development**

#### **(1) Promotion of the Integrated Improvement in the West Africa**

The study results have revealed that the international corridors support transport of people and goods not only within countries in which a corridor exists but also over a wider area. Therefore, an integrated approach to their improvement and maintenance will have to be taken by all the countries in the area. The practical issue of the highest priority is finding a guaranteed source of funding, which requires reform of the existing UEMOA Fund for appropriate sharing of financing among the member countries and the increase in the amount of the fund.

## **(2) Increasing the Impact of the Synergy between the Landlocked and Coastal Countries**

Integrated development of this area requires the viewpoint that the three economically advanced countries (Cote d'Ivoire, Ghana and Senegal) with strong economies help the other countries in the area, including the three landlocked countries, in their economic development. Therefore, there is a need for the implementation of economic and industrial policies and regional development projects that strengthen mutually complementary relationships between the landlocked and coastal countries, in addition to the improvement of the international corridors.

## **10.2 Issues for Transport Infrastructure and Direction for Future Improvement**

### **(1) Road Network**

The UEMOA corridors are positioned as a critical infrastructure to support not only transit transport in landlocked countries but also exchanges and trades between landlocked countries and coastal countries. At present, the UEMOA Corridors which connect the landlocked countries and the coastal countries are the only major highways connecting the countries in the area.

There are a number of poorly maintained sections along the corridors in landlocked areas of coastal countries as well as cross-border areas, which is a bottleneck for logistics. Meanwhile, the projection of the traffic demand suggests that two-lane roads will meet the demand for the next ten years with the exception of urban areas.

Therefore, the cross section of the UEMOA standard two-lane road shall be used as the basic road cross section in the future road construction and the pavement and bridges shall have to have sufficient durability to withstand the expected increase in the traffic of heavy trucks. It is extremely important to continue appropriate maintenance of the roads to ensure that they serve the function of permanent physical distribution routes.

Measures to increase traffic capacity of certain sections of roads, such as construction of bypasses, passing lanes and climbing lanes, shall be taken where such measures are required. Sufficient right of way shall be reserved beside the roads so that appropriate measures can be taken when the traffic demand has increased.

If the criterion that the importance of a corridor correlates with the volume of transit freight transport on it is used, the priorities of the followings are high: Ouagadougou - Lomé and Niamey - Cotonou Corridors with the long stretches of unpaved sections and serious degradation of the pavement.

**(2) Railroad Network**

Although some of railroads have been in operation, there are issues such as degraded infrastructure and poor transport capacity. When compared with road transport, railroad transport has advantages including lower costs and higher safety. Since it is expected, however, reasonable costs will be necessary to develop new and rehabilitate old railroad facilities, it is needed to work on railroad development from the mid to long perspective, while promoting demands for freight transport.

**(3) Ports**

Ports play a role of core economic activities in landlocked countries as an import/export gateway to those countries. As it is expected that demands will increase in the future, each port is promoting its modernization efforts and expansion programs.

In transit freight transport to and from landlocked countries, considerations to realize smooth access from ports to international corridors are required when developing infrastructure. In relation to this, reviews should be made to install dry ports for more efficient customs clearance processes.

**(4) Soft Infrastructure**

Transport is unable to be efficient, since there are hindrances such as troublesome procedures at the port or border, the issue of customs clearance escort and a number of checkpoints along the corridors. It is significant to create an environment that can meet needs of road users who want lower transport costs and shorter travel time.

**(5) Promotion of the Creation of the Basic Data of Infrastructure**

Measures are required for elucidating the current conditions in the area accurately and identifying problems and tasks to be tackled. Such measures include regular implementation of both inventory surveys of transport infrastructure and traffic flow surveys, whose results are to be used for the formulation of effective programs and the maintenance of the infrastructure. The Study Team is convinced that the results of this study will help implement these measures.



## Appendix



Appendix 1

Traffic Survey Sheet

<Traffic Count Survey Sheet>

Traffic Volume Count Survey	Data Collection Survey on Traffic for International port and international corridor in Western Africa	YACHIYO Eng. Corp INGEROSEC Corp.
--------------------------------	---	--------------------------------------

Survey Date _____	Direction From _____ To _____
Survey Point Name _____	
Surveyor _____	Checker _____
Supervisor _____	Encoder _____

Time		Type of Vehicle					Event/Accident
From	To	Passenger Car	Bus	Light Truck	Truck &Trailer	Container truck	
6:00	7:00						
7:00	8:00						
8:00	9:00						
9:00	10:00						
10:00	11:00						
11:00	12:00						
12:00	13:00						
13:00	14:00						
14:00	15:00						
15:00	16:00						
16:00	17:00						
17:00	18:00						
18:00	19:00						
19:00	20:00						
20:00	21:00						
21:00	22:00						
22:00	23:00						
23:00	0:00						
0:00	1:00						
1:00	2:00						
2:00	3:00						
3:00	4:00						
4:00	5:00						
5:00	6:00						

*Data Collection Survey on Traffic for International Port  
and International Corridor in Western Africa*

<Road Side Origin Destination Survey Sheet>

Roadside OD Interview Survey	Data Collection Survey on Traffic for International port and international corridor in Western Africa			YACHIYO Eng. Corp. INGEROSEC Corp.
Survey Date _____		Direction From _____ To _____		
Survey Point Name _____				
Surveyor _____		Checker _____		
Supervisor _____		Encoder _____		
1.No. of car	_____	_____	_____	_____
2.Survey Time	:	:	:	:
3.Vehicle Type	1. Passenger Car 2. Bus 3. Light Truck 4. Truck&Trailer 5. Container truck	1. Passenger Car 2. Bus 3. Light Truck 4. Truck&Trailer 5. Container truck	1. Passenger Car 2. Bus 3. Light Truck 4. Truck&Trailer 5. Container truck	1. Passenger Car 2. Bus 3. Light Truck 4. Truck&Trailer 5. Container truck
4. Origin of Trip (City) (Department) (Region) (Country)	_____	_____	_____	_____
5. Destination (City) (Department) (Region) (Country)	_____	_____	_____	_____
7. Trip Purpose	1. To work 2. To school 3. Business 4. Private 5. To home 6. Tourism 7. Others <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div>	1. To work 2. To school 3. Business 4. Private 5. To home 6. Tourism 7. Others <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div>	1. To work 2. To school 3. Business 4. Private 5. To home 6. Tourism 7. Others <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div>	1. To work 2. To school 3. Business 4. Private 5. To home 6. Tourism 7. Others <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div>
8. Number of Passengers (Incl.Driver)	_____	_____	_____	_____
The following question is for "c. Light Truck", "d. Truck&Trailer", "e. Container truck"				
8. Type of Goods	1. Agricultural product 2. Construction material 3. Petroleum product 4. Domestic animal 5. Consumption goods 6. Others <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div>	1. Agricultural product 2. Construction material 3. Petroleum product 4. Domestic animal 5. Consumption goods 6. Others <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div>	1. Agricultural product 2. Construction material 3. Petroleum product 4. Domestic animal 5. Consumption goods 6. Others <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div>	1. Agricultural product 2. Construction material 3. Petroleum product 4. Domestic animal 5. Consumption goods 6. Others <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div>
9. Load	Actual load <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div> (ton,litre)	Actual load <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div> (ton,litre)	Actual load <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div> (ton,litre)	Actual load <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div> (ton,litre)
	Maximum load capacity <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div> (ton,litre)	Maximum load capacity <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div> (ton,litre)	Maximum load capacity <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div> (ton,litre)	Maximum load capacity <div style="border: 1px solid black; width: 50px; height: 20px; margin-top: 5px;"></div> (ton,litre)

### <Logistic facilities Origin Destination Survey Sheet>

OD Interview Survey in Port	Data Collection Survey on Traffic for International port and international corridor in Western Africa	YACHIYO Eng. Corp. INGEROSEC Corp.
--------------------------------	---	---------------------------------------

Survey Date _____	Direction From _____ To _____
Survey Point Name _____	
Surveyor _____	Checker _____
Supervisor _____	Encoder _____

1.No. of car				
2.Survey Time	:	:	:	:
3.Vehicle Type	1. Light Truck 2 Truck&Trailer 3. Container truck			
4 (a). Origin Port				
Trip Mode to port				
4 (b). Destination Port				
Trip Mode to trip destination				
5. Origin of Trip (City) (Department) (Region) (Country)				
6. Destination (City) (Department) (Region) (Country)				
7. Type of Goods	1. Agricultural product 2. Construction material 3. Petroleum product 4. Domestic animal 5. Consumption goods 6. Others <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	1. Agricultural product 2. Construction material 3. Petroleum product 4. Domestic animal 5. Consumption goods 6. Others <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	1. Agricultural product 2. Construction material 3. Petroleum product 4. Domestic animal 5. Consumption goods 6. Others <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	1. Agricultural product 2. Construction material 3. Petroleum product 4. Domestic animal 5. Consumption goods 6. Others <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
8. Load	Actual load <div style="border: 1px solid black; height: 20px; width: 100%;"></div> (ton,litre) Maximum load capacity <div style="border: 1px solid black; height: 20px; width: 100%;"></div> (ton,litre)	Actual load <div style="border: 1px solid black; height: 20px; width: 100%;"></div> (ton,litre) Maximum load capacity <div style="border: 1px solid black; height: 20px; width: 100%;"></div> (ton,litre)	Actual load <div style="border: 1px solid black; height: 20px; width: 100%;"></div> (ton,litre) Maximum load capacity <div style="border: 1px solid black; height: 20px; width: 100%;"></div> (ton,litre)	Actual load <div style="border: 1px solid black; height: 20px; width: 100%;"></div> (ton,litre) Maximum load capacity <div style="border: 1px solid black; height: 20px; width: 100%;"></div> (ton,litre)

Appendix 2

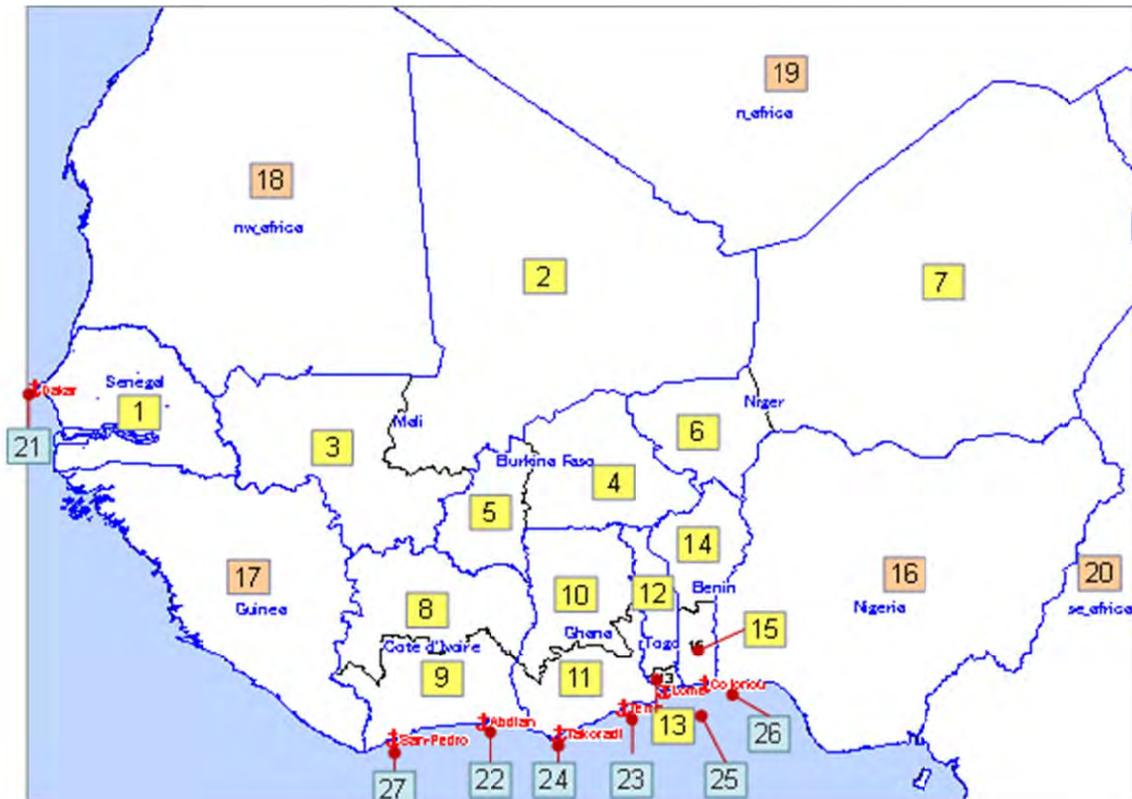
OD Table (OD Matrix)

<List of OD table>

No	year	type	Unit	Contents
1	2011	Vehicle OD (AADT)	veh./day	All vehicletype OD table
2				Passengercar OD table
3				Bus ODtable
4				Light truck OD table
5				Heavy truck OD table
6		Passengers OD	'000people /year	Passenger OD table
7		Freight OD	'000ton/year	Freight weight OD table (Total of all goods)
8				HS25:Cement; Salt & Sulphur
9				HS27:Mineral Fuels & Oils
10				HS10:Cereals
11				HS23:Residues from the Food Industries
12				HS72:Iron and Steel
13				HS31:Fertilizers
14				HS17:Sugars and Sugar Confectionery
15				HS 7:Edible Vegetables
16				HS52:Cotton
17		HS12:Oil Seeds and Oleaginous Fruits		
18	2022	Vehicle OD	veh./day	All vehicletype ODtable
19				Passengercar OD table
20				Bus ODtable
21				Light truck OD table
22				Heavy truck OD table
23		Passengers OD	'000people /year	Passenger OD table
24		Freight OD	'000ton/year	Freight weight OD table (Total of all goods)
25				HS25:Cement; Salt & Sulphur
26				HS27:Mineral Fuels & Oils
27				HS10:Cereals
28				HS23:Residues from the Food Industries
29				HS72:Iron and Steel
30				HS31:Fertilizers
31				HS17:Sugars and Sugar Confectionery
32				HS 7:Edible Vegetables
33				HS52:Cotton
34		HS12:Oil Seeds and Oleaginous Fruits		

<Zone Code and Map>

1	Senegal	16	Nigeria
2	Mali(North)	17	Guinea coast
3	Mali(South)	18	North west africa
4	Burkina Faso(East)	19	North african
5	Burkina Faso(West)	20	East,Central,South Africa
6	Niger(Niamey region)	21	Port Dakar
7	Niger(other)	22	Port Abidjan
8	Cote d'Ivoire(North)	23	Port Tema
9	Cote d'Ivoire(South)	24	Port Takoradi
10	Ghana(North)	25	Port Lome
11	Ghana(Sourth)	26	Port Cotonou
12	Togo(North)	27	Port San-Pedro
13	Togo(Sourth)	99	Overseas
14	Benin(North)		
15	Benin(Sourth)		



Data Collection Survey on Traffic for International Port and International Corridor in Western Africa

Origin	Destination																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total
1 Senegal	19	0	280	6	0	1	0	0	0	0	1	0	0	0	0	0	77	49	0	2	377	0	0	0	0	0	0	812
2 Mali(North)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
3 Mali(South)	184	0	0	11	50	8	1	4	42	0	6	0	3	0	5	0	7	1	0	0	1	16	3	0	0	0	0	342
4 Burkina Faso(East)	1	0	1	0	0	76	3	12	27	32	25	20	181	0	11	4	0	0	0	0	0	4	7	0	39	3	0	448
5 Burkina Faso(West)	3	0	77	0	0	5	3	46	22	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	160
6 Niger(Niamey region)	3	1	6	89	5	0	0	0	13	5	14	12	51	347	40	457	3	1	0	0	0	0	0	0	5	5	0	1056
7 Niger(Other)	0	0	0	3	2	0	0	0	0	0	5	12	0	37	10	90	2	0	0	0	0	0	0	0	0	0	0	167
8 Cote d'Ivoire(North)	0	0	0	12	72	3	0	0	251	0	0	0	19	0	0	0	0	0	0	0	0	347	0	0	2	0	0	707
9 Cote d'Ivoire(South)	17	0	90	67	23	21	2	429	1499	7	1960	0	42	0	22	20	0	0	0	0	0	499	0	0	0	0	0	4698
10 Ghana(North)	0	0	1	32	0	5	0	0	2	14	1567	2	0	0	0	0	0	0	0	0	0	0	830	0	0	0	0	2454
11 Ghana(South)	1	0	24	68	0	16	0	0	1032	1496	2478	0	335	0	52	128	3	0	0	0	0	14	101	0	89	6	0	5844
12 Togo(North)	0	0	0	28	0	20	36	7	0	6	15	561	952	3	19	0	0	0	0	0	0	0	0	0	185	0	0	1833
13 Togo(South)	0	0	23	150	0	153	14	0	35	0	532	1229	1933	9	1863	12	0	0	0	0	0	0	0	0	23	3	0	5979
14 Benin(North)	0	0	11	2	0	694	39	0	0	0	2	9	0	231	0	0	0	0	0	0	0	0	0	0	1	28	0	1018
15 Benin(South)	0	0	25	17	0	44	10	0	47	0	35	0	2321	446	6849	304	0	0	0	0	0	0	0	0	5	202	0	10307
16 Nigeria	1	0	0	10	1	314	107	16	95	0	142	1	74	0	270	3	0	0	0	0	0	1	0	0	1	17	0	1054
17 Guinea coast	91	0	1	1	0	5	0	0	0	0	0	0	0	0	0	16	5	1	0	0	1	0	0	0	0	0	0	119
18 North west africa	52	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	62
19 North african	8	0	13	6	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
20 East.Central.South Africa	3	0	9	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
21 Port Dakar	605	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	659
22 Port Abidjan	0	0	48	4	5	0	0	399	587	0	59	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1105
23 Port Tema	0	0	5	43	2	7	0	0	0	85	2810	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2952
24 Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Port Lome	0	0	12	100	0	56	4	0	0	0	43	282	259	0	7	4	0	0	0	0	0	0	15	0	0	24	0	806
26 Port Cotonou	0	0	1	37	0	24	56	0	0	0	0	0	126	651	0	0	0	0	0	0	0	4	0	0	35	0	0	931
27 Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	987	1	686	700	163	1457	278	914	3652	1646	9695	2123	6181	968	10032	1038	98	52	0	3	380	885	958	0	385	293	0	43576

Data Collection Survey on Traffic for International Port  
and International Corridor in Western Africa

2		2011	Vehicle OD	veh./day	Passenger car																								
		Destination																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total
1	Senegal	17	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	45	23	0	0	0	0	0	0	0	0	106	
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
3	Mali(South)	157	0	0	6	34	2	0	1	24	0	0	0	0	0	1	0	6	0	0	0	0	0	0	0	0	232		
4	Burkina Faso(East)	0	0	0	0	0	30	1	5	15	24	11	15	110	0	7	3	0	0	0	0	0	0	0	0	0	220		
5	Burkina Faso(West)	0	0	46	0	0	0	0	15	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73		
6	Niger(Niamey region)	0	1	2	50	1	0	0	0	2	1	3	12	44	283	33	447	0	1	0	0	0	0	0	0	0	880		
7	Niger(Other)	0	0	0	0	0	0	0	0	0	0	0	12	0	31	3	0	0	0	0	0	0	0	0	0	0	47		
8	Cote d'Ivoire(North)	0	0	0	4	15	0	0	0	73	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	106		
9	Cote d'Ivoire(South)	7	0	0	15	7	1	1	209	926	6	1905	0	26	0	1	7	0	0	0	0	0	0	0	0	0	3110		
10	Ghana(North)	0	0	1	19	0	1	0	0	1	14	374	0	0	0	0	0	0	0	0	0	0	0	0	0	0	410		
11	Ghana(South)	0	0	0	24	0	1	0	0	940	306	804	0	222	0	39	54	0	0	0	0	0	0	0	0	0	2391		
12	Togo(North)	0	0	0	10	0	15	15	0	0	0	1	285	542	0	15	0	0	0	0	0	0	0	0	0	0	883		
13	Togo(South)	0	0	5	4	0	64	13	0	21	0	139	713	1886	3	1742	9	0	0	0	0	0	0	0	0	0	4599		
14	Benin(North)	0	0	0	0	0	0	645	36	0	0	0	0	2	0	154	0	0	0	0	0	0	0	0	0	0	838		
15	Benin(South)	0	0	0	6	0	38	4	0	32	0	24	0	2201	341	6433	274	0	0	0	0	0	0	0	0	0	9354		
16	Nigeria	0	0	0	1	0	305	0	0	21	0	96	0	66	0	246	3	0	0	0	0	0	0	0	0	0	739		
17	Guinea coast	79	0	0	1	0	0	0	0	0	0	0	0	0	0	16	3	0	1	0	0	0	0	0	0	0	99		
18	North west africa	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	39		
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21	Port Dakar																										0		
22	Port Abidjan																										0		
23	Port Tema																										0		
24	Port Takoradi																										0		
25	Port Lome																										0		
26	Port Cotonou																										0		
27	Port San-Pedro																										0		
	total	289	1	75	140	57	1102	69	230	2065	350	3359	1037	5113	659	8677	813	54	24	0	0	0	0	0	0	0	24125		



Data Collection Survey on Traffic for International Port  
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4		2011	Vehicle OD	veh./day	Light truck																											
		Destination																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total			
1	Senegal	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	169	0	0	0	0	0	0	173			
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
3	Mali(South)	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	9				
4	Burkina Faso(East)	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	22	1	0	29				
5	Burkina Faso(West)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
6	Niger(Niamey region)	0	0	0	3	0	0	0	0	1	0	1	0	0	59	0	0	0	0	0	0	0	0	0	5	0	0	68				
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	1	0	0	73	0	0	0	0	0	0	0	0	0	0	0	0	74				
8	Cote d'Ivoire(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	2	0	0	62				
9	Cote d'Ivoire(South)	0	0	0	0	0	0	13	66	0	22	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	168				
10	Ghana(North)	0	0	0	2	0	0	0	0	1	180	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	204				
11	Ghana(South)	0	0	0	0	2	0	0	70	267	358	0	0	2	1	0	14	21	0	0	0	14	21	0	89	6	0	831				
12	Togo(North)	0	0	0	0	0	0	3	0	0	14	104	1	0	0	0	0	0	0	0	0	0	0	0	118	0	0	240				
13	Togo(South)	0	0	0	0	0	0	0	0	0	0	1	8	6	28	0	0	0	0	0	0	0	0	0	17	3	0	62				
14	Benin(North)	0	0	0	0	0	45	0	0	0	0	2	6	0	7	0	0	0	0	0	0	0	0	0	1	4	0	65				
15	Benin(South)	0	0	0	4	0	0	0	0	0	3	35	22	177	2	0	0	0	0	0	0	0	0	0	5	154	0	402				
16	Nigeria	0	0	0	0	0	0	97	0	0	7	0	0	0	3	0	0	0	0	0	0	1	0	0	1	17	0	125				
17	Guinea coast	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3				
18	North west africa	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3				
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
21	Port Dakar	125	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	127				
22	Port Abidjan	0	0	0	0	0	0	38	68	0	59	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	168				
23	Port Tema	0	0	0	1	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48				
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
25	Port Lome	0	0	0	5	0	2	2	0	0	43	119	39	0	7	4	0	0	0	0	0	0	15	0	0	24	0	260				
26	Port Cotonou	0	0	1	0	0	1	0	0	0	0	0	0	28	171	0	0	0	0	0	0	4	0	0	35	0	0	239				
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
total		137	0	4	14	0	53	99	54	206	268	736	226	88	115	395	81	2	2	0	0	171	144	60	0	296	209	0	3361			

Data Collection Survey on Traffic for International Port  
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5	2011	Vehicle OD	veh./day																								Heavy truck			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total
1	Senegal	0	253	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	208	0	0	0	0	0	0	520
2	Mali(North)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
3	Mali(South)	5	4	4	1	1	3	4	0	1	0	1	0	0	0	0	0	0	1	1	0	0	1	16	3	0	0	0	46	
4	Burkina Faso(East)	1	0	0	4	4	2	0	1	3	8	0	20	0	1	0	0	0	0	0	0	0	0	4	6	0	16	2	70	
5	Burkina Faso(West)	0	0	17	3	3	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	28	
6	Niger(Niamey region)	0	0	0	2	3	0	0	1	0	5	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	5	22	
7	Niger(Other)	0	0	0	3	2	0	0	0	0	4	0	1	0	12	2	0	0	2	0	0	0	0	0	0	0	0	5	30	
8	Cote d'Ivoire(North)	0	0	0	1	27	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	287	0	0	0	0	318	
9	Cote d'Ivoire(South)	0	0	63	27	0	1	1	1	14	0	0	0	1	0	0	0	1	0	0	0	0	0	433	0	0	0	0	540	
10	Ghana(North)	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	808	0	0	0	813	
11	Ghana(South)	1	0	14	34	0	7	0	0	2	0	0	90	0	0	0	0	0	0	0	0	0	0	0	79	0	0	0	228	
12	Togo(North)	0	0	0	3	0	0	21	1	0	6	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	67	0	102	
13	Togo(South)	0	0	11	111	0	69	0	0	0	0	376	0	18	0	0	0	0	0	0	0	0	0	0	0	0	6	0	591	
14	Benin(North)	0	0	11	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	38	
15	Benin(South)	0	0	18	2	0	1	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	48	0	74	
16	Nigeria	0	0	0	9	1	1	10	16	65	0	3	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	108	
17	Guinea coast	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
18	North west africa	10	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
19	North african	8	0	13	6	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	
20	East,Central,South Africa	3	0	9	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	
21	Port Dakar	480	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	532	
22	Port Abidjan	0	0	48	4	5	0	0	361	519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	937	
23	Port Tema	0	0	5	42	2	7	0	0	0	85	2763	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2904	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	12	95	0	54	2	0	0	0	163	221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	546	
26	Port Cotonou	0	0	0	37	0	23	56	0	0	0	0	97	480	0	0	0	0	0	0	0	0	0	0	0	0	0	0	692	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	total	508	0	533	404	48	179	100	384	592	95	3174	168	337	104	501	13	32	25	0	3	209	740	898	0	90	84	0	9220	







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9	2011	Freight OD	'000ton/year	HS27:Mineral Fuels & Oils	Destination																											
				Origin																												
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
				total																												
1	Senegal	0	0	441	8	1	1	1	0	0	0	0	0	0	0	0	0	0	0	14	3	0	0	148	0	0	0	0	0	0	0	617
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Mali(South)	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	3	0	0	0	0	0	0	0	0	0	20	
4	Burkina Faso(East)	3	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	13	
5	Burkina Faso(West)	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	
6	Niger(Niamey region)	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Cote d'Ivoire(North)	0	0	0	2	22	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1486	0	0	0	0	0	0	1513	
9	Cote d'Ivoire(South)	0	0	123	14	1	12	2	0	0	3	118	0	0	0	0	0	0	0	0	0	0	0	1525	0	0	0	0	0	0	1797	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3896	0	0	0	0	0	3897	
11	Ghana(South)	0	0	27	3	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	344	0	0	0	0	380	
12	Togo(North)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
13	Togo(South)	0	0	46	3	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	
14	Benin(North)	0	0	109	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134	
15	Benin(South)	0	0	178	14	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223	
16	Nigeria	0	0	0	82	7	0	8	158	210	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	468	
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	North west africa	10	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
19	North african	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
20	East,Central,South Africa	22	0	0	22	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	
21	Port Dakar	1657	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1662	
22	Port Abidjan	0	0	6	25	15	0	0	778	1157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1981	
23	Port Tema	0	0	0	83	5	11	0	0	0	2	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	193	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	1	174	0	23	3	0	0	0	0	0	99	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	425	
26	Port Cotonou	0	0	0	68	0	48	122	0	0	0	0	0	0	0	336	1174	0	0	0	0	0	0	0	0	0	0	0	0	0	1747	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		1706	0	1023	514	53	103	137	936	1367	5	217	101	133	337	1178	0	0	0	14	8	2	1	148	3011	4240	0	1	42	0	15277	

Data Collection Survey on Traffic for International Port  
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10	2011	Freight OD	'000ton/year	HS10:Cereals	Destination																												
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total	
1	Senegal	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	9	0	1	31	0	0	0	0	0	0	107
2	Mali(North)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
3	Mali(South)	0	0	0	0	0	5	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
4	Burkina Faso(East)	0	0	0	0	0	18	0	0	1	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
5	Burkina Faso(West)	0	0	1	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Cote d'Ivoire(North)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	7	
9	Cote d'Ivoire(South)	0	0	3	2	0	1	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	19	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Ghana(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Togo(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Togo(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
14	Benin(North)	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
15	Benin(South)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
16	Nigeria	0	0	0	0	0	0	2	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	North west africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Port Dakar	1084	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1215	
22	Port Abidjan	0	0	142	16	9	0	0	561	835	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1563	
23	Port Tema	0	0	10	53	3	22	0	0	0	6	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	353	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	26	111	0	47	6	0	0	0	0	0	0	78	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366	
26	Port Cotonou	0	0	0	43	0	26	66	0	0	0	0	0	0	0	0	64	222	0	0	0	0	0	0	0	0	0	0	0	0	0	421	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	total	1086	0	372	226	16	131	110	563	837	7	270	78	101	65	222	0	0	0	0	0	7	9	0	1	31	8	0	0	0	0	4139	

Data Collection Survey on Traffic for International Port  
and International Corridor in Western Africa

11	2011	Freight OD	'000ton/year	HS23:Residues from the Food Industries																												
				Destination																												
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total	
1	Senegal	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	0	0	33	0	0	0	0	0	0	42
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Mali(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Burkina Faso(East)	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
5	Burkina Faso(West)	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Cote d'Ivoire(North)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	42	
9	Cote d'Ivoire(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	43	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Ghana(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Togo(North)	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	8	
13	Togo(South)	0	0	0	0	0	0	4	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
14	Benin(North)	0	0	0	4	0	2	1	1	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	14	
15	Benin(South)	0	0	0	7	1	1	0	1	2	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	21	
16	Nigeria	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	North west africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Port Dakar	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
22	Port Abidjan	0	0	0	0	0	0	0	0	8	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
23	Port Tema	0	0	0	0	0	0	0	0	0	0	2	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
26	Port Cotonou	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		12	0	4	13	2	7	6	14	16	3	88	1	2	1	5	0	0	2	6	0	0	33	84	0	0	4	7	0	309		

Data Collection Survey on Traffic for International Port  
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12	2011	Freight OD	'000ton/year	HS72:Iron and Steel	Destination																											
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total
1	Senegal	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	26	0	0	150	0	0	0	0	0	0	313
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Mali(South)	1	0	0	0	0	0	0	0	0	0	0	0	0	4	5	0	0	0	0	2	0	0	0	1	17	1	0	0	0	33	
4	Burkina Faso(East)	0	0	0	0	0	4	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	74
5	Burkina Faso(West)	0	0	1	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
7	Niger(Other?)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8	Cote d'Ivoire(North)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	25
9	Cote d'Ivoire(South)	0	0	7	0	0	1	0	0	0	1	35	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	70
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
11	Ghana(South)	0	0	7	1	0	2	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
12	Togo(North)	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	6
13	Togo(South)	0	0	1	3	0	5	0	0	0	0	1	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	19
14	Benin(North)	0	0	0	1	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	59
15	Benin(South)	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	0	104	
16	Nigeria	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
17	Guinea coast	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18	North west africa	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	East,Central, South Africa	0	0	7	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
21	Port Dakar	247	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	288
22	Port Abidjan	0	0	44	5	3	0	0	53	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	185
23	Port Tema	0	0	3	17	1	4	0	0	0	7	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	333
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Port Lome	0	0	8	36	0	8	1	0	0	0	0	0	0	33	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
26	Port Cotonou	0	0	0	14	0	1	1	0	0	0	0	0	0	0	39	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total		253	0	165	90	6	32	7	54	80	8	337	42	121	62	145	1	95	26	0	150	64	6	4	153	0	4	153	0	1902	0	

Data Collection Survey on Traffic for International Port  
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13	2011	Freight OD	'000ton/year	HS31:Fertilizers																												
					Destination																											
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
1	Senegal	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	20	0	0	0	0	0	35
2	Mali(North)	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
3	Mali(South)	6	0	0	21	34	0	0	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	
4	Burkina Faso(East)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
5	Burkina Faso(West)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Cote d'Ivoire(North)	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
9	Cote d'Ivoire(South)	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
10	Ghana(North)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
11	Ghana(South)	1	0	3	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
12	Togo(North)	0	0	0	1	0	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	9	0	16	
13	Togo(South)	0	0	5	21	0	10	0	0	0	0	0	0	5	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	61	
14	Benin(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	Benin(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	Nigeria	0	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	North west africa	2	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	
19	North african	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
20	East,Central,South Africa	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
21	Port Dakar	25	0	74	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	
22	Port Abidjan	0	0	80	2	1	0	0	52	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	213	
23	Port Tema	0	0	6	7	0	0	0	0	0	0	15	601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	629	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	15	15	0	1	0	0	0	0	0	9	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	
26	Port Cotonou	0	0	0	6	0	2	4	0	0	0	0	0	0	0	0	19	65	0	0	0	0	0	0	0	0	0	0	0	0	96	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		36	0	245	90	45	16	18	57	84	15	606	9	13	22	85	0	0	0	0	4	1	0	0	20	0	6	0	9	0	1381	



Data Collection Survey on Traffic for International Port  
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15	2011	Freight OD	'000ton/year	HS 7:Edible Vegetables	Destination																												
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
1	Senegal	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Mali(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
4	Burkina Faso(East)	0	0	0	0	0	0	0	1	4	12	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	
5	Burkina Faso(West)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
6	Niger(Niamey region)	0	0	0	1	0	0	0	1	3	1	43	0	2	0	0	0	0	0	0	21	0	0	1	0	0	0	0	0	0	0	0	72
7	Niger(Other?)	0	0	0	0	0	0	0	0	1	0	29	0	1	0	9	19	0	0	0	0	0	0	1	0	0	0	0	0	0	0	60	
8	Cote d'Ivoire(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
9	Cote d'Ivoire(South)	0	0	9	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	11	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
11	Ghana(South)	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	8	
12	Togo(North)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13	Togo(South)	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
14	Benin(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Benin(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
16	Nigeria	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	North west africa	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Port Dakar	185	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192
22	Port Abidjan	0	0	7	0	0	0	0	0	0	37	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
23	Port Tema	0	0	0	1	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Port Lome	0	0	1	2	0	1	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
26	Port Cotonou	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total		186	0	34	4	0	7	8	40	61	6	104	2	8	3	3	9	41	1	0	1	0	1	25	2	30	0	1	0	0	0	575	

Data Collection Survey on Traffic for International Port  
and International Corridor in Western Africa

16	2011	Freight OD	'000ton/year	HS52:Cotton																												
					Destination																											
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
1	Senegal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Mali(South)	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	4	78	7	0	0	103	
4	Burkina Faso(East)	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	13	17	0	90	9	133	
5	Burkina Faso(West)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	1	0	6	
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Cote d'Ivoire(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	35	
9	Cote d'Ivoire(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	38	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
11	Ghana(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Togo(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	18	
13	Togo(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
14	Benin(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	
15	Benin(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	52	
16	Nigeria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	North west africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Port Dakar	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
22	Port Abidjan	0	0	3	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
23	Port Tema	0	0	0	1	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	1	1	0	1	0	0	0	0	0	0	0	0	10	13	0	0	0	0	0	0	0	0	0	0	0	0	0	26	
26	Port Cotonou	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	10	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		15	0	6	3	0	2	1	4	5	1	15	10	13	2	7	0	2	7	0	2	1	0	1	18	164	27	0	111	87	0	497



Data Collection Survey on Traffic for International Port and International Corridor in Western Africa

18	2022	Vehicle OD	veh./day	All vehicle type																									
		Destination																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total
1	Senegal	39	0	586	15	1	2	1	0	0	0	1	0	0	0	0	0	142	88	0	4	677	0	0	0	0	0	0	1558
2	Mali(North)	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
3	Mali(South)	374	0	0	23	116	16	1	5	74	0	10	1	6	0	10	0	12	1	0	0	1	38	4	0	0	0	0	692
4	Burkina Faso(East)	1	0	3	0	0	185	6	24	53	64	47	43	386	0	25	8	0	0	0	0	0	13	13	0	84	4	0	962
5	Burkina Faso(West)	8	0	174	0	0	13	6	94	45	2	3	2	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	347
6	Niger(Niamey region)	7	2	13	223	11	0	0	0	25	9	25	25	106	689	87	931	3	1	0	0	0	0	0	0	9	7	0	2173
7	Niger(Other)	0	0	0	5	3	0	0	0	0	0	7	25	0	76	23	144	3	0	0	0	0	0	0	0	0	6	0	293
8	Cote d'Ivoire(North)	0	0	0	24	117	3	0	0	391	0	0	0	32	0	0	0	0	0	0	0	0	410	0	0	3	0	0	980
9	Cote d'Ivoire(South)	32	0	91	106	47	41	2	664	2349	10	2985	0	70	0	38	32	0	0	0	0	0	612	0	0	0	0	0	7079
10	Ghana(North)	0	1	2	66	0	11	0	0	3	22	2406	4	0	0	0	0	0	0	0	0	0	0	1347	0	0	0	0	3861
11	Ghana(South)	2	0	39	134	1	31	0	0	1572	2295	3775	0	568	0	90	207	4	0	0	0	0	20	156	0	140	10	0	9045
12	Togo(North)	0	0	0	61	0	42	59	8	0	6	22	1002	1748	3	37	0	0	0	0	0	0	0	0	0	234	0	0	3221
13	Togo(South)	0	0	35	232	0	273	29	0	60	0	640	2264	3514	13	3513	20	0	0	0	0	0	0	0	0	31	4	0	10629
14	Benin(North)	0	0	23	4	0	1463	81	0	0	1	6	17	0	435	0	0	0	0	0	0	0	0	0	0	2	49	0	2080
15	Benin(South)	0	0	50	42	1	96	22	0	85	0	63	0	4434	854	13584	567	0	0	0	0	0	0	0	0	9	362	0	20177
16	Nigeria	2	0	0	21	2	636	219	20	129	0	230	2	131	0	500	5	0	0	0	0	0	1	0	0	2	27	0	1926
17	Guinea coast	163	0	1	1	0	9	0	0	0	0	0	0	0	0	0	26	9	1	0	0	1	0	0	0	0	0	0	212
18	North west africa	91	0	9	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	107
19	North african	11	0	19	11	0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
20	East,Central,South Africa	4	0	13	24	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
21	Port Dakar	954	0	78	1	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	1037
22	Port Abidjan	0	0	87	9	13	0	0	553	812	0	87	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	1565
23	Port Tema	0	0	8	83	5	16	0	0	0	135	4365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4612
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Port Lome	0	0	16	170	0	104	6	0	0	0	69	474	427	0	11	6	0	0	0	0	0	0	25	0	0	42	0	1350
26	Port Cotonou	0	0	1	70	0	49	108	0	0	0	0	0	0	189	985	0	0	0	0	0	0	5	0	0	53	0	0	1462
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total		1691	3	1250	1328	321	2998	545	1367	5596	2542	14736	3849	11438	1825	18350	1949	176	93	1	5	681	1099	1549	0	566	512	0	75468





Data Collection Survey on Traffic for International Port  
and International Corridor in Western Africa

21	2022	Vehicle OD	veh./day																								Light truck		
		Destination																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total
1	Senegal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	312
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Mali(South)	11	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	13	
4	Burkina Faso(East)	0	0	0	0	4	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	49	2	61	
5	Burkina Faso(West)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	Niger(Niamey region)	0	0	0	5	0	0	0	0	1	0	1	0	0	86	0	0	0	0	0	0	0	0	0	0	9	0	102	
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	117	0	0	0	0	0	0	0	0	0	0	0	118	
8	Cote d'Ivoire(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	0	0	3	0	74	
9	Cote d'Ivoire(South)	0	0	0	0	0	0	0	17	82	0	14	0	0	0	0	0	0	0	0	0	0	81	0	0	0	0	194	
10	Ghana(North)	0	0	0	3	0	0	0	0	1	0	283	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	322	
11	Ghana(South)	0	0	0	0	0	4	0	0	78	424	570	0	0	0	3	2	0	0	0	0	0	20	33	0	140	10	1285	
12	Togo(North)	0	0	0	0	0	0	0	2	0	0	19	151	2	0	0	0	0	0	0	0	0	0	0	0	0	0	324	
13	Togo(South)	0	0	0	0	0	0	0	0	0	0	2	11	8	28	0	0	0	0	0	0	0	0	0	0	22	4	75	
14	Benin(North)	0	0	0	0	0	0	0	0	0	0	4	11	0	12	0	0	0	0	0	0	0	0	0	0	2	8	159	
15	Benin(South)	0	0	0	10	0	0	0	0	0	0	6	0	86	37	304	4	0	0	0	0	0	0	0	0	9	275	731	
16	Nigeria	0	0	0	0	0	0	0	198	0	0	11	0	0	0	4	0	0	0	0	0	0	1	0	0	2	27	244	
17	Guinea coast	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	
18	North west africa	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4	
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Port Dakar	197	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	201	
22	Port Abidjan	0	0	0	1	0	0	0	53	94	0	87	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	239	
23	Port Tema	0	0	1	1	0	0	0	0	0	0	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	0	9	0	4	3	0	0	0	69	200	64	0	11	6	0	0	0	0	0	0	25	0	0	42	432	
26	Port Cotonou	0	0	1	0	0	2	0	0	0	0	0	0	43	259	0	0	0	0	0	0	0	5	0	0	53	0	362	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		215	0	7	29	0	138	200	71	256	426	1138	357	173	174	621	130	4	3	0	0	307	178	96	0	437	369	0	5329

Data Collection Survey on Traffic for International Port  
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22	2022	Vehicle OD	veh./day																								Heavy truck				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total	
1	Senegal	0	0	527	15	1	1	1	0	0	0	0	0	0	0	0	0	0	0	47	44	0	4	374	0	0	0	0	0	1015	0
2	Mali(North)	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
3	Mali(South)	7	0	0	6	8	1	1	3	3	0	1	1	1	1	0	1	0	1	1	0	0	1	38	4	0	0	0	79	0	
4	Burkina Faso(East)	1	0	1	0	0	9	4	0	2	4	13	0	42	0	1	0	0	0	0	0	0	0	13	11	0	36	2	141	0	
5	Burkina Faso(West)	0	0	31	0	0	8	6	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	53	0	
6	Niger(Niamey region)	0	0	0	4	6	0	0	0	1	0	7	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	7	33	0	
7	Niger(other)	0	0	0	5	3	0	0	0	0	0	6	0	0	2	0	19	3	0	3	0	0	0	0	0	0	0	6	44	0	
8	Cote d'Ivoire(North)	0	0	0	1	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	340	0	0	0	0	367	0	
9	Cote d'Ivoire(South)	0	0	40	23	0	1	1	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	530	0	0	0	0	604	0	
10	Ghana(North)	0	0	0	2	0	1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1312	0	0	0	1321	0	
11	Ghana(South)	1	0	21	64	0	15	0	0	2	0	0	0	161	0	0	0	0	0	0	0	0	0	0	123	0	0	0	388	0	
12	Togo(North)	0	0	0	4	0	0	0	27	1	0	6	0	0	0	3	0	0	0	0	0	0	0	0	0	0	84	0	125	0	
13	Togo(South)	0	0	11	144	0	98	0	0	0	0	378	0	0	0	18	0	0	0	0	0	0	0	0	0	0	8	0	658	0	
14	Benin(North)	0	0	23	4	0	2	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	41	0	74	0	
15	Benin(South)	0	0	37	6	1	2	0	0	0	1	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	86	0	143	0
16	Nigeria	0	0	0	18	2	2	21	20	78	0	4	2	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	150	0	
17	Guinea coast	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
18	North west africa	15	0	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	
19	North african	11	0	19	11	0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	
20	East,Central,South Africa	4	0	13	24	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0	
21	Port Dakar	757	0	77	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	836	0	
22	Port Abidjan	0	0	87	8	13	0	0	500	718	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1326	0	
23	Port Tema	0	0	8	82	5	16	0	0	0	135	4292	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4537	0	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	16	162	0	100	4	0	0	0	0	274	363	0	0	0	0	0	0	0	0	0	0	0	0	0	0	919	0	
26	Port Cotonou	0	0	0	70	0	48	108	0	0	0	0	0	147	727	0	0	0	0	0	0	0	0	0	0	0	0	0	1099	0	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		799	0	920	658	67	314	178	526	805	146	4713	284	579	749	155	749	20	55	46	1	5	374	921	1452	0	129	143	0	14039	0

Data Collection Survey on Traffic for International Port and International Corridor in Western Africa

23	2022	Passengers OD	'000people /year	Passenger OD table																										
		Destination																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total	
1	Senegal	118	0	129	0	0	13	0	0	0	0	5	0	0	0	0	0	207	0	0	0	0	0	0	0	0	0	0	0	494
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	Mali(South)	890	0	0	8	378	136	0	1	366	0	238	0	33	0	51	0	21	0	0	0	0	0	0	0	0	0	0	2123	
4	Burkina Faso(East)	0	0	44	0	0	739	2	113	483	167	61	8	257	0	21	5	0	0	0	0	0	0	0	0	0	0	0	1900	
5	Burkina Faso(West)	6	0	427	0	0	74	0	651	268	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1431	
6	Niger(Niamey region)	5	2	104	287	5	0	0	185	45	63	53	190	1043	300	1281	0	1	0	0	0	0	0	0	0	0	0	0	0	3567
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	1	53	0	113	32	0	0	0	0	0	0	0	0	0	0	0	0	212	
8	Cote d'Ivoire(North)	0	0	0	209	590	30	0	0	2979	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3846	
9	Cote d'Ivoire(South)	217	0	711	1265	525	604	1	3612	7651	8	3338	0	102	0	774	235	0	0	0	0	0	0	0	0	0	0	0	19042	
10	Ghana(North)	0	1	1	199	0	55	0	0	4	355	11737	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12352	
11	Ghana(Sourth)	1	0	421	313	1	126	0	0	1128	9225	9183	0	298	0	135	1795	48	0	0	0	0	0	0	0	0	0	0	22673	
12	Togo(North)	0	0	0	68	0	46	21	24	0	7	951	3103	0	74	0	0	0	0	0	0	0	0	0	0	0	0	0	4294	
13	Togo(Sourth)	0	0	202	163	0	168	17	0	321	0	245	4976	3211	5	3887	28	0	0	0	0	0	0	0	0	0	0	0	13222	
14	Benin(North)	0	0	0	0	0	2169	120	0	0	0	0	1	17	0	1079	0	0	0	0	0	0	0	0	0	0	0	0	3386	
15	Benin(Sourth)	0	0	144	178	0	264	14	0	523	0	64	0	4603	1918	18211	806	0	0	0	0	0	0	0	0	0	0	0	26724	
16	Nigeria	6	0	0	1	0	877	37	0	199	0	1036	0	171	0	454	2	0	0	0	0	0	0	0	0	0	0	0	2782	
17	Guinea coast	377	0	0	1	0	108	0	0	0	0	0	0	0	0	0	16	26	1	0	0	0	0	0	0	0	0	0	529	
18	North west africa	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Port Dakar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	Port Abidjan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	Port Tema	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	Port Cotonou	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	total	1683	4	2185	2691	1499	5408	212	4401	14109	9800	25983	6040	12023	3079	25000	4200	302	24	0	0	0	0	0	0	0	0	0	118640	

Data Collection Survey on Traffic for International Port and International Corridor in Western Africa

24	2022	Freight OD	'000ton/year	Total of all goods	Destination																											
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
1	Senegal	0	0	4538	147	13	8	5	0	0	0	1	0	0	0	0	0	0	0	0	831	299	0	44	3028	0	0	0	0	0	0	8916
2	Mali(North)	0	0	0	0	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	
3	Mali(South)	51	0	0	37	66	10	5	25	34	0	9	7	8	2	5	2	9	8	3	2	7	306	15	0	0	0	0	0	0	610	
4	Burkina Faso(East)	12	0	7	0	0	78	0	2	7	25	82	0	282	3	11	0	2	4	3	2	0	74	58	0	374	25	0	0	1050		
5	Burkina Faso(West)	2	0	182	0	0	12	0	12	0	3	7	15	0	0	0	0	0	0	0	0	0	0	0	0	11	11	0	4	0	259	
6	Niger(Niamey region)	0	0	1	9	0	0	0	1	4	1	64	0	27	3	1	33	0	0	0	0	0	0	1	0	0	0	0	0	3	0	148
7	Niger(other)	0	0	0	0	0	0	0	0	0	1	40	0	11	0	184	29	0	0	0	0	0	0	1	0	0	0	0	0	6	0	273
8	Cote d'Ivoire(North)	0	0	0	6	81	11	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	3727	0	0	0	0	3829	
9	Cote d'Ivoire(South)	1	0	269	51	3	34	4	0	0	3	145	2	3	0	4	0	0	0	0	0	0	0	0	0	3961	0	0	0	0	4480	
10	Ghana(North)	5	0	0	21	0	6	0	0	3	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	6956	0	0	0	7030	
11	Ghana(South)	13	0	71	200	0	98	8	0	18	0	0	327	0	0	3	0	0	0	0	0	0	0	0	0	0	587	0	0	0	1325	
12	Togo(North)	0	0	0	27	0	0	0	88	4	0	58	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	768	0	973	
13	Togo(South)	0	0	73	818	0	348	0	0	1	0	765	0	0	190	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0	2238	
14	Benin(North)	0	0	221	37	3	28	8	1	2	1	5	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	293	0	613	
15	Benin(South)	0	0	362	61	6	13	0	2	3	1	9	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	569	0	1097	
16	Nigeria	0	0	3	175	16	13	225	191	253	0	30	21	25	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	956	
17	Guinea coast	0	0	12	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
18	North west africa	65	0	90	40	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	203	
19	North african	109	0	60	35	3	71	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	325	
20	East,Central,South Africa	37	0	41	78	7	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172	
21	Port Dakar	7004	0	775	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7792	
22	Port Abidjan	0	0	1020	178	113	0	0	3795	5645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10750	
23	Port Tema	0	0	60	503	30	161	0	0	0	710	28938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30402	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	139	918	0	299	33	0	0	0	0	1827	2275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5492	
26	Port Cotonou	0	0	0	404	0	306	725	0	0	0	0	0	0	1343	4717	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7495	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		7301	0	7925	3753	360	1509	1151	4034	5969	803	30095	1928	2993	1415	4932	194	904	311	7	50	3035	8079	7626	0	1188	895	0	0	96456		

Data Collection Survey on Traffic for International Port  
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25	2022	Freight OD	'000ton/year	HS25:Cement; Salt & Sulphur	Destination																												
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
		1 Senegal	0	0	3875	62	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	474	186	0	41	1318	0	0	0	0	0	0	5963
		2 Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3 Mali(South)	1	0	0	0	0	0	0	0	0	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
		4 Burkina Faso(East)	0	0	2	0	0	0	0	0	0	1	1	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
		5 Burkina Faso(West)	0	0	36	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
		6 Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7 Niger(Other?)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	28
		8 Cote d'Ivoire(North)	0	0	0	1	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	21	
		9 Cote d'Ivoire(South)	0	0	45	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	60	
		10 Ghana(North)	0	0	0	12	0	3	0	0	2	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
		11 Ghana(South)	0	0	7	122	0	50	4	0	11	0	0	0	0	314	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	508
		12 Togo(North)	0	0	0	24	0	0	52	0	0	33	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	751
		13 Togo(South)	0	0	16	738	0	262	0	0	0	0	0	500	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	1588
		14 Benin(North)	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
		15 Benin(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
		16 Nigeria	0	0	0	0	0	2	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
		17 Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		18 North west africa	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
		19 North african	61	0	29	16	2	23	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
		20 East,Central, South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		21 Port Dakar	195	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
		22 Port Abidjan	0	0	9	1	1	0	0	718	1067	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1795
		23 Port Tema	0	0	0	3	0	1	0	0	0	400	15801	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16205
		24 Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		25 Port Lome	0	0	1	4	0	2	0	0	0	0	0	0	1072	1304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2383
		26 Port Cotonou	0	0	0	3	0	51	115	0	0	0	0	0	0	0	234	836	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1240
		27 Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		total	260	0	4026	991	25	397	210	728	1087	433	16302	1113	1641	238	867	29	474	186	0	41	1318	14	1	0	679	0	0	0	0	31059	

Data Collection Survey on Traffic for International Port  
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26	2022	Freight OD	'000ton/year	HS27:Mineral Fuels & Oils	Destination																										
				Origin																											
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
				total																											
1	Senegal	0	0	374	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	11	1	0	0	127	0	0	0	0	0	0	519
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Mali(South)	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	3	0	0	0	0	0	0	0	0	26
4	Burkina Faso(East)	9	0	4	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	2	0	0	0	0	0	0	0	24
5	Burkina Faso(West)	1	0	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
6	Niger(Niamey region)	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7	Niger(other?)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Cote d'Ivoire(North)	0	0	0	1	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1282	0	0	0	0	0	0	1297
9	Cote d'Ivoire(South)	0	0	114	6	0	10	1	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	1345	0	0	0	0	0	0	1501
10	Ghana(North)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6879	0	0	0	0	0	6881
11	Ghana(Sourth)	0	0	51	10	0	2	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	580	0	0	0	0	0	650
12	Togo(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
13	Togo(Sourth)	0	0	41	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
14	Benin(North)	0	0	93	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
15	Benin(Sourth)	0	0	152	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	182
16	Nigeria	0	0	0	152	14	1	26	102	135	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	436
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	North west africa	16	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
19	North african	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
20	East,Central,South Africa	36	0	0	20	2	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
21	Port Dakar	2542	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2550
22	Port Abidjan	0	0	23	56	37	0	0	628	933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1677
23	Port Tema	0	0	0	111	7	26	0	0	0	2	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Port Lome	0	0	3	254	0	59	7	0	0	0	0	0	57	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	452
26	Port Cotonou	0	0	0	64	0	85	216	0	0	0	0	0	0	0	437	1529	0	0	0	0	0	0	0	0	0	0	0	0	0	2331
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total		2623	0	1016	693	72	197	255	730	1069	3	100	59	79	488	1535	0	0	0	11	7	2	2	127	2628	7459	0	1	36	0	19141

Data Collection Survey on Traffic for International Port  
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27	2022	Freight OD	'000ton/year	HS10:Cereals	Destination																											
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27 total	
1	Senegal	0	0	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	225
2	Mali(North)	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
3	Mali(South)	0	0	0	0	9	4	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	21	
4	Burkina Faso(East)	0	0	0	0	34	0	0	2	1	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	
5	Burkina Faso(West)	0	0	3	0	0	4	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
7	Niger(Other?)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
8	Cote d'Ivoire(North)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	7	
9	Cote d'Ivoire(South)	0	0	4	2	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	16	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Ghana(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Togo(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Togo(South)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
14	Benin(North)	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
15	Benin(South)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
16	Nigeria	0	0	0	0	0	3	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	North west africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Port Dakar	1137	0	482	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1620	
22	Port Abidjan	0	0	282	22	15	0	0	973	1449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2741	
23	Port Tema	0	0	35	132	8	40	0	0	0	0	6	263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	484	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	54	155	0	46	5	0	0	0	0	160	202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	621	
26	Port Cotonou	0	0	0	111	0	47	115	0	0	0	0	0	0	0	0	65	228	0	0	0	0	0	0	0	0	0	0	0	0	567	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		1137	0	1014	424	26	188	175	980	1456	7	268	160	210	67	228	0	11	13	0	1	46	10	0	0	0	0	0	0	0	6423	

Data Collection Survey on Traffic for International Port  
and International Corridor in Western Africa

28	2022	Freight OD	'000ton/year	HS23:Residues from the Food Industries																														
				Destination																														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total			
1	Senegal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Mali(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Burkina Faso(East)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
5	Burkina Faso(West)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Cote d'Ivoire(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	49	
9	Cote d'Ivoire(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	0	50	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Ghana(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Togo(North)	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
13	Togo(South)	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
14	Benin(North)	0	0	0	4	0	4	1	1	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
15	Benin(South)	0	0	0	7	1	2	0	1	2	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
16	Nigeria	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	North west africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Port Dakar	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
22	Port Abidjan	0	0	0	0	0	0	0	0	9	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
23	Port Tema	0	0	0	0	0	0	0	0	0	0	2	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Port Lome	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
26	Port Cotonou	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total		9	0	4	13	2	15	12	14	16	3	94	2	3	2	6	0	0	0	0	3	11	0	0	63	98	0	0	5	8	0	0	382	

Data Collection Survey on Traffic for International Port  
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29	2022	Freight OD	'000ton/year	HS72:Iron and Steel																												
				Destination																												
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total	
1	Senegal	0	0	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	560
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	44	0	0	0	0	0	0	0	0	0	0	0
3	Mali(South)	2	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	2	0	0	0	1	25	2	0	0	0	0	42	
4	Burkina Faso(East)	0	0	0	0	0	0	0	13	0	0	0	0	0	0	125	0	0	0	0	0	0	0	0	0	0	0	3	0	0	142	
5	Burkina Faso(West)	0	0	4	0	0	0	0	2	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	2	0	0	0	0	0	0	0	0	0	0	0	0	28	
7	Niger(Other?)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	1	0	0	0	0	0	0	0	0	0	0	0	11	
8	Cote d'Ivoire(North)	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	34	
9	Cote d'Ivoire(South)	0	0	12	1	0	2	0	0	0	0	1	40	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	90	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
11	Ghana(South)	0	0	10	1	0	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
12	Togo(North)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	5	
13	Togo(South)	0	0	1	3	0	6	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	13	
14	Benin(North)	0	0	0	1	0	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	0	86	
15	Benin(South)	0	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	0	147		
16	Nigeria	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	
17	Guinea coast	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
18	North west africa	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	East,Central, South Africa	0	0	13	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	
21	Port Dakar	405	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	478	
22	Port Abidjan	0	0	103	9	6	0	0	57	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260	
23	Port Tema	0	0	6	28	2	8	0	0	0	11	448	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	503	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	17	57	0	16	2	0	0	0	0	0	0	48	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191	
26	Port Cotonou	0	0	0	34	0	2	5	0	0	0	0	0	0	0	0	35	151	0	0	0	0	0	0	0	0	0	0	0	0	225	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		415	0	358	149	9	67	15	57	85	12	489	60	187	71	155	1	156	44	0	0	0	0	247	90	8	0	6	211	0	2894	

Data Collection Survey on Traffic for International Port  
and International Corridor in Western Africa

30		2022	Freight OD	'000ton/year	HS31:Fertilizers																								
		Destination																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total
1	Senegal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	25	0	0	0	0	0	34
2	Mali(North)	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
3	Mali(South)	21	0	0	36	65	0	0	4	5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	133	
4	Burkina Faso(East)	0	0	0	0	0	4	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
5	Burkina Faso(West)	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Cote d'Ivoire(North)	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
9	Cote d'Ivoire(South)	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
10	Ghana(North)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	10	
11	Ghana(South)	2	0	2	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	20	
12	Togo(North)	0	0	0	3	0	0	10	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	19	0	36	
13	Togo(South)	0	0	13	70	0	26	0	0	0	0	21	0	0	15	0	0	0	0	0	0	0	0	0	0	1	0	147	
14	Benin(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	Benin(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	Nigeria	0	0	0	0	0	1	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	North west africa	5	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	
19	North african	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
20	East,Central,South Africa	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
21	Port Dakar	51	0	78	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	
22	Port Abidjan	0	0	184	6	3	0	0	33	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	277	
23	Port Tema	0	0	0	10	0	0	0	0	0	28	1180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1219	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	18	24	0	1	0	0	0	0	18	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	
26	Port Cotonou	0	0	0	23	0	5	16	0	0	0	0	0	14	50	0	0	0	0	0	0	0	0	0	0	0	0	108	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		79	0	378	196	83	39	43	37	55	30	1202	19	29	17	65	0	5	1	0	0	25	1	9	0	20	0	2333	

Data Collection Survey on Traffic for International Port  
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31	2022	Freight OD	'000ton/year	HS17:Sugars and Sugar Confectionery																													
					Destination																												
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
1	Senegal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Mali(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Burkina Faso(East)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Burkina Faso(West)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Cote d'Ivoire(North)	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	13	13	
9	Cote d'Ivoire(South)	0	0	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	13	13	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
11	Ghana(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
12	Togo(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3	
13	Togo(South)	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	5
14	Benin(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
15	Benin(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
16	Nigeria	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	North west africa	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
19	North african	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Port Dakar	247	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	367	367
22	Port Abidjan	0	0	161	6	3	0	0	9	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191	191
23	Port Tema	0	0	18	35	2	6	0	0	0	0	0	2	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131	131
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Port Lome	0	0	25	33	0	4	0	0	0	0	0	0	0	0	59	76	0	0	0	0	0	0	0	0	0	0	0	0	0	198	198	
26	Port Cotonou	0	0	0	24	0	6	14	0	0	0	0	0	0	0	0	0	8	28	0	0	0	0	0	0	0	0	0	0	0	81	81	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		253	0	327	108	14	17	15	9	13	2	70	61	81	8	29	8	29	0	4	4	0	0	0	8	1	0	3	9	0	1032	1032	

Data Collection Survey on Traffic for International Port  
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32	2022	Freight OD	'000ton/year	HS 7:Edible Vegetables																													
					Destination																												
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total	
1	Senegal	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	42	0	0	0	0	0	0	54
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Mali(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
4	Burkina Faso(East)	0	0	0	0	0	1	0	0	1	8	36	0	18	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	
5	Burkina Faso(West)	0	0	0	0	0	0	2	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
6	Niger(Niamey region)	0	0	0	1	0	0	0	2	0	23	0	0	0	0	0	0	0	0	0	0	30	0	0	1	0	0	0	0	0	0	57	
7	Niger(other)	0	0	0	0	0	0	0	0	0	14	0	0	0	0	12	25	0	0	0	0	0	0	0	1	0	0	0	0	0	0	52	
8	Cote d'Ivoire(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
9	Cote d'Ivoire(South)	0	0	8	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	10	
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	37	
11	Ghana(Sourth)	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	10	
12	Togo(North)	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
13	Togo(Sourth)	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	
14	Benin(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	Benin(Sourth)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
16	Nigeria	0	0	0	0	0	1	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	North west africa	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Port Dakar	253	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259	
22	Port Abidjan	0	0	8	1	0	0	0	44	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	
23	Port Tema	0	0	0	2	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Port Lome	0	0	1	3	0	3	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
26	Port Cotonou	0	0	0	1	0	1	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
total		253	0	36	9	1	15	46	70	12	112	5	22	1	3	12	55	1	0	2	42	3	39	0	1	0	0	0	0	0	756		

Data Collection Survey on Traffic for International Port and International Corridor in Western Africa

33	2022	Freight OD	'000ton/year	HS52:Cotton	Destination																													
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			
1	Senegal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	11		
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
3	Mali(South)	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	3	54	3	0	0	0	67		
4	Burkina Faso(East)	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	1	0	0	0	0	0	0	0	0	26	21	0	90	17	0	159		
5	Burkina Faso(West)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	1	0	0	8		
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
8	Cote d'Ivoire(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	24		
9	Cote d'Ivoire(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	25		
10	Ghana(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	Ghana(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	Togo(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	33		
13	Togo(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
14	Benin(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	18		
15	Benin(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	35		
16	Nigeria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
18	North west africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
20	East,Central,South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
21	Port Dakar	4	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6		
22	Port Abidjan	0	0	3	0	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10		
23	Port Tema	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10		
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
25	Port Lome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	18	0	0	0	0	0	0	0	0	0	0	0	0	0	33			
26	Port Cotonou	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	9			
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
total		8	0	6	1	0	1	0	1	4	5	1	15	15	15	19	2	6	0	2	6	0	2	1	0	1	13	131	28	0	123	69	0	451

Data Collection Survey on Traffic for International Port and International Corridor in Western Africa

34		2022	Freight OD	'000ton/year	HS12:Oil Seeds and Oleaginous Fruits																								
		Destination																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	total
1	Senegal	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	44
2	Mali(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Mali(South)	1	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	7
4	Burkina Faso(East)	2	0	0	0	0	0	0	0	0	12	40	0	63	0	0	0	0	0	0	0	0	18	22	0	81	7	0	245
5	Burkina Faso(West)	0	0	0	0	0	0	0	1	0	1	3	3	0	0	0	0	0	0	0	0	0	2	4	0	1	0	0	15
6	Niger(Niamey region)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3
7	Niger(other)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	18	0	0	0	0	0	0	0	0	0	0	2	0	21
8	Cote d'Ivoire(North)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	14
9	Cote d'Ivoire(South)	0	0	26	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	13	0	0	0	0	0	45
10	Ghana(North)	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	26
11	Ghana(South)	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	15
12	Togo(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11
13	Togo(South)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	Benin(North)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
15	Benin(South)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
16	Nigeria	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
17	Guinea coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	North west africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	North african	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	East,Central,South Africa	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
21	Port Dakar	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
22	Port Abidjan	0	0	0	1	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
23	Port Tema	0	0	0	3	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
24	Port Takoradi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Port Lome	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
26	Port Cotonou	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
27	Port San-Pedro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total		21	0	29	32	5	0	2	2	3	14	65	3	64	0	0	21	0	0	1	0	40	46	51	0	93	15	0	507

