

## **Chapter 4 Present Conditions of Transportation in Egypt**

### **4.1 Waterborne Cargo Traffic**

#### **4.1.1 Sea Port Cargo Traffic**

There are five principal ports in Egypt, viz. Alexandria Port (including Dekheila Port), Damietta Port, Port Said Port, Suez Port and Safaga Port (See Figure 3.1.1). The four port authorities, viz. Alexandria Port Authority, Damietta Port Authority, Port Said Authority and Red Sea Port Authority administrate those ports. The Red Sea Port Authority administrates Suez Port and Safaga Port. In the year 2000, 48.0 million MT of local cargo passed through those ports in total, indicating an annual increase rate of 4.4% on average in the last decade. In the same year, the volume of dry bulk cargo including cereals accounted for 46.9%, followed by general cargo including container cargo (38.2%) and liquid bulk (14.9%). The volume of cereals mostly wheat and maize in the same year is 12.3 million MT, approximately one fourth of the total port cargo in Egypt, indicating an annual high increase rate of 8.5% in the last ten years. In the same period, container cargo achieved the highest annual increase rate of 12.2% on average among individual cargo items.

Among five principal ports in Egypt mentioned above, Alexandria Port is the largest Port in cargo volume, accounting for 58.6% of the total of the five principal ports (excluding transit cargo) in the year 2000, followed by Damietta Port (18.0%), Red Sea Ports (Suez Port and Safaga Port: 17.5%) and Port Said Port (5.8%). In Damietta Port, the volume of cereals accounted for 45.5% of the total in the same year (see Table 4.1.1 to 4.1.4).

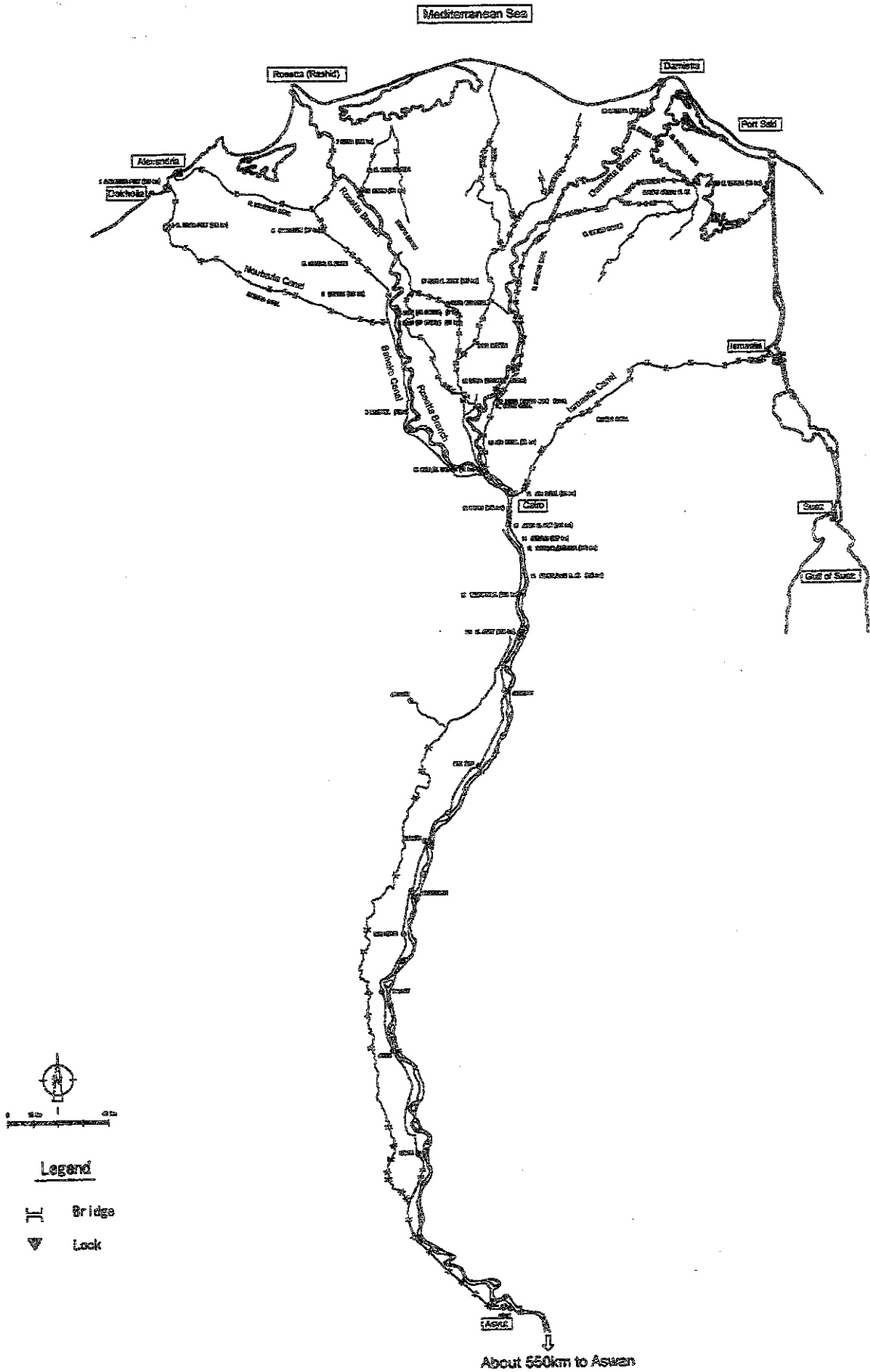


Figure 4.1.1 Location of Port in Egypt





## 4.1.2 Inland Waterway Cargo Traffic

In the year 2001, 2.1 million MT of cargo was transported by the inland waterway in total. In the same year, the major cargoes transported by this mode are stones and molasses and their ratio are 25.29% and 19.77% respectively among all commodities. Petroleum products and phosphate follow these materials and their ratios are 14.01% and 13.01% respectively. Total transport distance and average transport distance by the inland waterway in the same year is 2.8 million km and 447 km respectively as shown in Table 4.1.5 (1) to 4.1.5 (7). Figure 4.1.4 shows the historical trend of inland waterway transport in 1995-2001. Focusing on Alexandria Port and River Ports in Greater Cairo, these cargo volumes are shown in Table 4.1.6 and Table 4.1.7. Inter- and intra-region traffic by inland waterway is shown in Table 4.1.8 and all O/D traffics by inland waterway by each commodity are shown in Table 4.1.9 to Table 4.1.25. The location of inland port facilities is shown in Figure 4.1.2 and Figure 4.1.3.

**Table 4.1.5 (1) Volume of Cargoes Transported by Inland Waterway in 1995**

Products	No. of Barge	Transport Distance (km)	Volume (ton)	Ton Kms (ton km)	Ratio (%)	Ave. Volume (ton)	Ave. Transport Distance (km)	Ave. TonKms (ton km)
Petroleum Products	1,880	411,343	469,160	110,195,140	16.50%	249.6	218.8	58,614.4
Cement	34	26,796	13,472	10,573,708	0.47%	396.2	788.1	310,991.4
Sand/Gravel	168	19,318	33,872	3,767,890	1.19%	201.6	115.0	22,427.9
Phosphate	88	68,828	51,128	39,974,982	1.80%	581.0	782.1	454,261.2
Coal	1,055	273,540	576,138	149,545,200	20.26%	546.1	259.3	141,749.0
Stones	3,120	618,428	728,324	129,776,646	25.61%	233.4	198.2	41,595.1
Clay	136	129,372	91,295	86,383,015	3.21%	671.3	951.3	635,169.2
Sulphur	101	57,628	53,788	29,880,852	1.89%	532.6	570.6	295,850.0
Other Minerals	59	8,964	22,342	3,383,540	0.79%	378.7	151.9	57,348.1
Sugar	21	10,598	5,310	2,731,520	0.19%	252.9	504.7	130,072.4
Molasses	1,335	715,150	511,034	275,322,611	17.97%	382.8	535.7	206,234.2
Raw Aluminum	10	8,214	4,260	3,587,940	0.15%	426.0	821.4	358,794.0
Fertilizers	1	201	220	44,220	0.01%	220.0	201.0	44,220.0
General Cargo	197	115,505	31,895	18,037,863	1.12%	161.9	586.3	91,562.8
Iron & Steel	23	15,534	5,769	3,996,783	0.20%	250.8	675.4	173,773.2
Coke	466	124,460	147,501	40,385,260	5.19%	316.5	267.1	86,663.6
Aluminum Products	127	88,280	41,579	28,304,629	1.46%	327.4	695.1	222,871.1
Animal Grease	8	960	2,620	314,400	0.09%	327.5	120.0	39,300.0
Food Products	112	768	53,950	343,100	1.90%	481.7	6.9	3,063.4
<b>Total</b>	<b>8,941</b>	<b>2,693,887</b>	<b>2,843,657</b>	<b>936,549,299</b>	<b>100.00%</b>	<b>318.0</b>	<b>301.3</b>	<b>104,747.7</b>

Source: River Transport Authority (RTA)

**Table 4.1.5 (2) Volume of Cargoes Transported by Inland Waterway in 1996**

Products	No. of Barge	Transport Distance (km)	Volume (ton)	Ton Kms (ton km)	Ratio (%)	Ave. Volume (ton)	Ave. Transport Distance (km)	Ave. TonKms (ton km)
Petroleum Products	2,209	625,530	589,893	177,257,239	18.35%	267.0	283.2	80,243.2
Cement	8	6,335	2,450	1,946,950	0.08%	306.3	791.9	243,368.8
Sand/Gravel	90	5,008	20,180	1,247,500	0.63%	224.2	55.6	13,861.1
Phosphate	266	202,116	179,229	137,915,556	5.58%	673.8	759.8	518,479.5
Coal	1,097	284,624	592,591	153,861,536	18.44%	540.2	259.5	140,256.6
Stones	3,777	811,258	810,896	167,053,010	25.23%	214.7	214.8	44,229.0
Clay	312	299,242	179,109	170,336,361	5.57%	574.1	959.1	545,949.9
Sulphur	124	67,764	68,098	37,167,796	2.12%	549.2	546.5	299,740.3
Other Minerals	46	16,474	16,619	7,411,667	0.52%	361.3	358.1	161,123.2
Sugar	33	23,759	10,221	7,401,037	0.32%	309.7	720.0	224,273.8
Molasses	1,375	771,826	471,246	267,225,183	14.66%	342.7	561.3	194,345.6
Raw Aluminum	9	7,587	5,031	4,241,133	0.16%	559.0	843.0	471,237.0
Fertilizers	2	741	560	200,700	0.02%	280.0	370.5	100,350.0
Pulp/Paper	3	2,544	560	478,870	0.02%	186.7	848.0	159,623.3
General Cargo	173	102,627	21,171	11,839,121	0.66%	122.4	593.2	68,434.2
Iron & Steel	14	9,283	1,500	936,800	0.05%	107.1	663.1	66,914.3
Coke	524	138,978	161,552	43,782,112	5.03%	308.3	265.2	83,553.6
Aluminum Products	154	103,243	48,066	32,054,284	1.50%	312.1	670.4	208,144.7
Food Products	101	18,657	35,252	6,919,076	1.10%	349.0	184.7	68,505.7
Total	10,317	3,497,596	3,214,224	1,229,275,931	100.00%	311.5	339.0	119,150.5

Source: River Transport Authority (RTA)

**Table 4.1.5 (3) Volume of Cargoes Transported by Inland Waterway in 1997**

Products	No. of Barge	Transport Distance (km)	Volume (ton)	Ton Kms (ton km)	Ratio (%)	Ave. Volume (ton)	Ave. Transport Distance (km)	Ave. TonKms (ton km)
Petroleum Products	1,956	619,058	529,209	176,243,006	17.10%	270.6	316.5	90,103.8
Sand/Gravel	11	587	2,400	135,300	0.08%	218.2	53.4	12,300.0
Phosphate	291	204,749	186,022	13,300,814	6.01%	639.3	703.6	45,707.3
Coal	1,189	330,890	631,298	173,675,800	20.40%	530.9	278.3	146,068.8
Stones	3,833	888,224	902,845	198,202,491	29.17%	235.5	231.7	51,709.5
Clay	197	187,827	111,835	106,555,638	3.61%	567.7	953.4	540,891.6
Sulphur	124	77,123	69,505	43,173,385	2.25%	560.5	622.0	348,172.5
Other Minerals	2	240	1,997	239,640	0.06%	998.5	120.0	119,820.0
Sugar	46	34,314	13,025	9,722,515	0.42%	283.2	746.0	211,359.0
Molasses	1,385	809,160	495,622	285,557,613	16.01%	357.8	584.2	206,178.8
Raw Aluminum	23	19,389	10,086	8,502,498	0.33%	438.5	843.0	369,673.8
Fertilizers	10	2,025	2,280	462,780	0.07%	228.0	202.5	46,278.0
General Cargo	146	91,233	19,500	11,778,300	0.63%	133.6	624.9	80,673.3
Iron & Steel	10	6,625	1,125	711,600	0.04%	112.5	662.5	71,160.0
Coke	178	46,280	55,281	14,373,060	1.79%	310.6	260.0	80,747.5
Aluminum Products	101	62,171	31,355	19,258,118	1.01%	310.4	615.6	190,674.4
Food Products	100	25,040	31,555	7,899,260	1.02%	315.6	250.4	78,992.6
Total	9,602	3,404,935	3,094,940	1,069,791,818	100.00%	322.3	354.6	111,413.4

Source: River Transport Authority (RTA)

**Table 4.1.5 (4) Volume of Cargoes Transported by Inland Waterway in 1998**

Products	No. of Barge	Transport Distance (km)	Volume (ton)	Ton Kms (ton km)	Ratio (%)	Ave. Volume (ton)	Ave. Transport Distance (km)	Ave. TonKms (ton km)
Petroleum Products	1,549	518,246	433,165	153,588,107	15.21%	279.6	334.6	99,153.1
Phosphate	195	152,163	136,106	107,547,030	4.78%	698.0	780.3	551,523.2
Coal	1,137	295,380	611,069	158,806,060	21.45%	537.4	259.8	139,671.1
Stones	3,081	729,413	730,079	162,373,133	25.63%	237.0	236.7	52,701.4
Clay	294	274,905	163,241	152,423,719	5.73%	555.2	935.1	518,448.0
Sulphur	135	66,888	65,565	33,230,495	2.30%	485.7	495.5	246,151.8
Other Minerals	37	2,378	20,230	931,640	0.71%	546.8	64.3	25,179.5
Sugar	11	7,742	2,780	1,947,860	0.10%	252.7	703.8	177,078.2
Molasses	1,634	942,887	583,050	335,037,829	20.47%	356.8	577.0	205,041.5
Raw Aluminum	13	10,959	5,145	4,337,235	0.18%	395.8	843.0	333,633.5
Fertilizers	4	1,226	960	280,750	0.03%	240.0	306.5	70,187.5
General Cargo	152	72,474	34,867	12,507,361	1.22%	229.4	476.8	82,285.3
Iron & Steel	6	3,830	700	438,500	0.02%	116.7	638.3	73,083.3
Coke	28	7,280	9,566	2,487,160	0.34%	341.6	260.0	88,827.1
Aluminum Products	128	79,608	48,734	30,045,216	1.71%	380.7	621.9	234,728.3
Food Products	13	3,224	3,325	824,600	0.12%	255.8	248.0	63,430.8
<b>Total</b>	<b>8,417</b>	<b>3,168,603</b>	<b>2,848,582</b>	<b>1,156,806,695</b>	<b>100.00%</b>	<b>338.4</b>	<b>376.5</b>	<b>137,436.9</b>

Source: River Transport Authority (RTA)

**Table 4.1.5 (5) Volume of Cargoes Transported by Inland Waterway in 1999**

Products	No. of Barge	Transport Distance (km)	Volume (ton)	Ton Kms (ton km)	Ratio (%)	Ave. Volume (ton)	Ave. Transport Distance (km)	Ave. TonKms (ton km)
Petroleum Products	57	17,806	15,806	5,472,811	15.15%	277.3	312.4	96,014.2
Phosphate	16	12,693	11,465	9,245,985	10.99%	716.6	793.3	577,874.1
Stones	219	51,468	43,488	9,548,338	41.67%	198.6	235.0	43,599.7
Clay	1	961	910	874,510	0.87%	910.0	961.0	874,510.0
Other Minerals	7	1,080	2,000	312,000	1.92%	285.7	154.3	44,571.4
Molasses	27	17,359	7,040	4,542,230	6.75%	260.7	642.9	168,230.7
General Cargo	10	7,654	1,426	1,121,718	1.37%	142.6	765.4	112,171.8
Coke	37	9,620	16,554	4,304,040	15.86%	447.4	260.0	116,325.4
Aluminum Products	9	5,400	3,188	1,912,800	3.05%	354.2	600.0	212,533.3
Food Products	8	6,136	2,485	1,924,155	2.38%	310.6	767.0	240,519.4
<b>Total</b>	<b>391</b>	<b>130,177</b>	<b>104,362</b>	<b>39,258,587</b>	<b>100.00%</b>	<b>266.9</b>	<b>332.9</b>	<b>100,405.6</b>

Source: River Transport Authority (RTA)



**Table 4.1.5 (6) Volume of Cargoes Transported by Inland Waterway in 2000**

Products	No. of Barge	Transport Distance (km)	Volume (ton)	Ton Kms (ton km)	Ratio (%)	Ave. Volume (ton)	Ave. Transport Distance (km)	Ave. TonKms (ton km)
Petroleum Products	1,225	521,285	364,074	169,332,627	16.84%	297.2	425.5	138,230.7
Phosphate	432	337,779	323,811	253,208,640	14.98%	749.6	781.9	586,131.1
Coal	127	34,640	71,978	19,035,040	3.33%	566.8	272.8	149,882.2
Stones	2,574	602,190	612,660	133,332,259	28.35%	238.0	234.0	51,799.6
Clay	126	102,131	65,784	52,907,044	3.04%	522.1	810.6	419,897.2
Sulphur	84	23,325	43,275	10,704,885	2.00%	515.2	277.7	127,439.1
Other Minerals	37	1,800	18,201	658,102	0.84%	491.9	48.6	17,786.5
Sugar	37	16,716	9,289	4,163,279	0.43%	251.1	451.8	112,521.1
Molasses	1,380	887,951	471,930	302,196,314	21.83%	342.0	643.4	218,982.8
Raw Aluminum	22	18,546	10,598	8,934,114	0.49%	481.7	843.0	406,096.1
General Cargo	101	46,903	24,107	9,718,421	1.12%	238.7	464.4	96,222.0
Iron & Steel	4	2,184	600	320,750	0.03%	150.0	546.0	80,187.5
Coke	239	63,240	94,805	25,309,300	4.39%	396.7	264.6	105,896.7
Aluminum Products	71	43,923	23,799	14,601,375	1.10%	335.2	618.6	205,653.2
Ferro Silicon	52	55,640	20,040	21,442,800	0.93%	385.4	1,070.0	412,361.5
Food Products	22	10,406	6,476	3,027,508	0.30%	294.4	473.0	137,614.0
<b>Total</b>	<b>6,533</b>	<b>2,768,659</b>	<b>2,161,427</b>	<b>1,028,892,458</b>	<b>100.00%</b>	<b>330.8</b>	<b>423.8</b>	<b>157,491.6</b>

Source: River Transport Authority (RTA)

Table 4.1.5 (7) Volume of Cargoes Transported by Inland Waterway in 2001

Products	No. of Barge	Transport Distance (km)	Volume (ton)	Ton Kms (ton km)	Ratio (%)	Ave. Volume (ton)	Ave. Transport Distance (km)	Ave. TonKms (ton km)
Petroleum Products	993	419,303	292,347	130,094,997	14.01%	294.4	422.3	131,012.1
Phosphate	423	320,565	271,298	204,705,351	13.01%	641.4	757.8	483,937.0
Coal	325	87,308	169,822	45,735,920	8.14%	522.5	268.6	140,725.9
Stones	2,254	540,679	527,516	116,818,719	25.29%	234.0	239.9	51,827.3
Clay	270	128,283	118,380	45,922,410	5.68%	438.4	475.1	170,083.0
Sulphur	166	80,610	70,779	33,168,353	3.39%	426.4	485.6	199,809.4
Other Minerals	21	7,790	11,260	4,507,480	0.54%	536.2	371.0	214,641.9
Sugar	3	2,199	600	439,800	0.03%	200.0	733.0	146,600.0
Molasses	1,220	885,788	412,415	306,271,074	19.77%	338.0	726.1	251,041.9
Raw Aluminum	126	106,218	54,341	45,809,463	2.61%	431.3	843.0	363,567.2
General Cargo	87	57,025	14,195	9,154,545	0.68%	163.2	655.5	105,224.7
Iron & Steel	32	9,914	11,611	3,158,541	0.56%	362.8	309.8	98,704.4
Coke	107	27,926	43,397	11,383,700	2.08%	405.6	261.0	106,389.7
Aluminum Products	145	96,720	57,034	38,560,407	2.73%	393.3	667.0	265,933.8
Ferro Silicon	12	12,840	5,924	6,338,680	0.28%	493.7	1,070.0	528,223.3
Food Products	85	18,746	25,046	5,542,978	1.20%	294.7	220.5	65,211.5
Total	6,269	2,801,914	2,085,965	1,007,612,418	100.00%	332.7	446.9	160,729.4

Source: River Transport Authority (RTA)

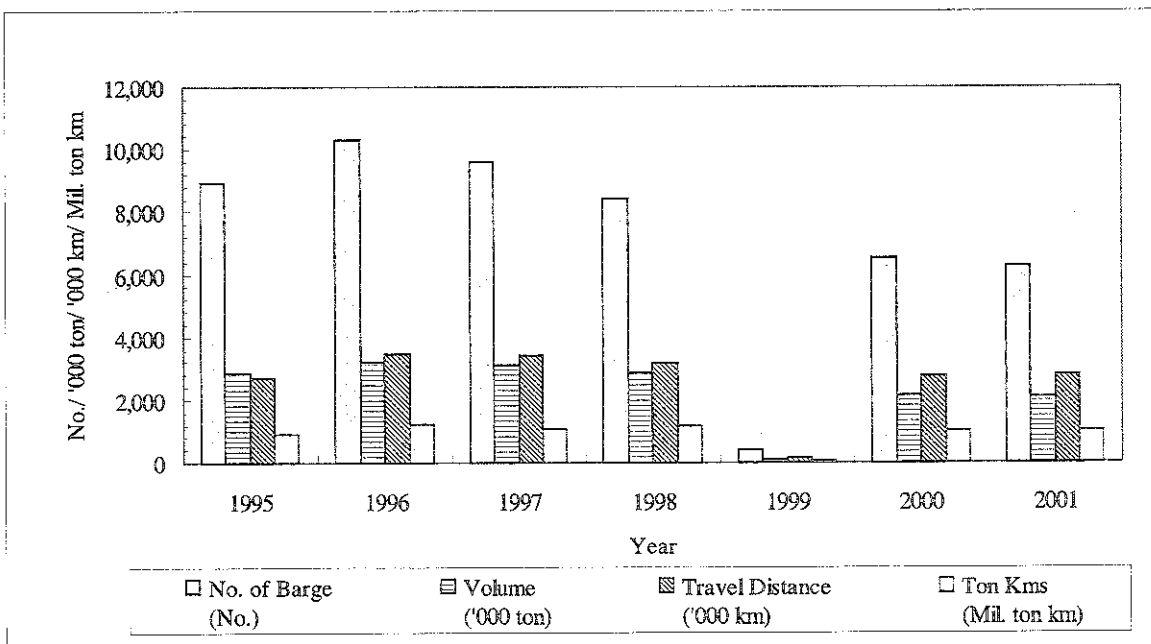


Figure 4.1.4 Historical Trend of Inland Waterway Transport in 1995-2001

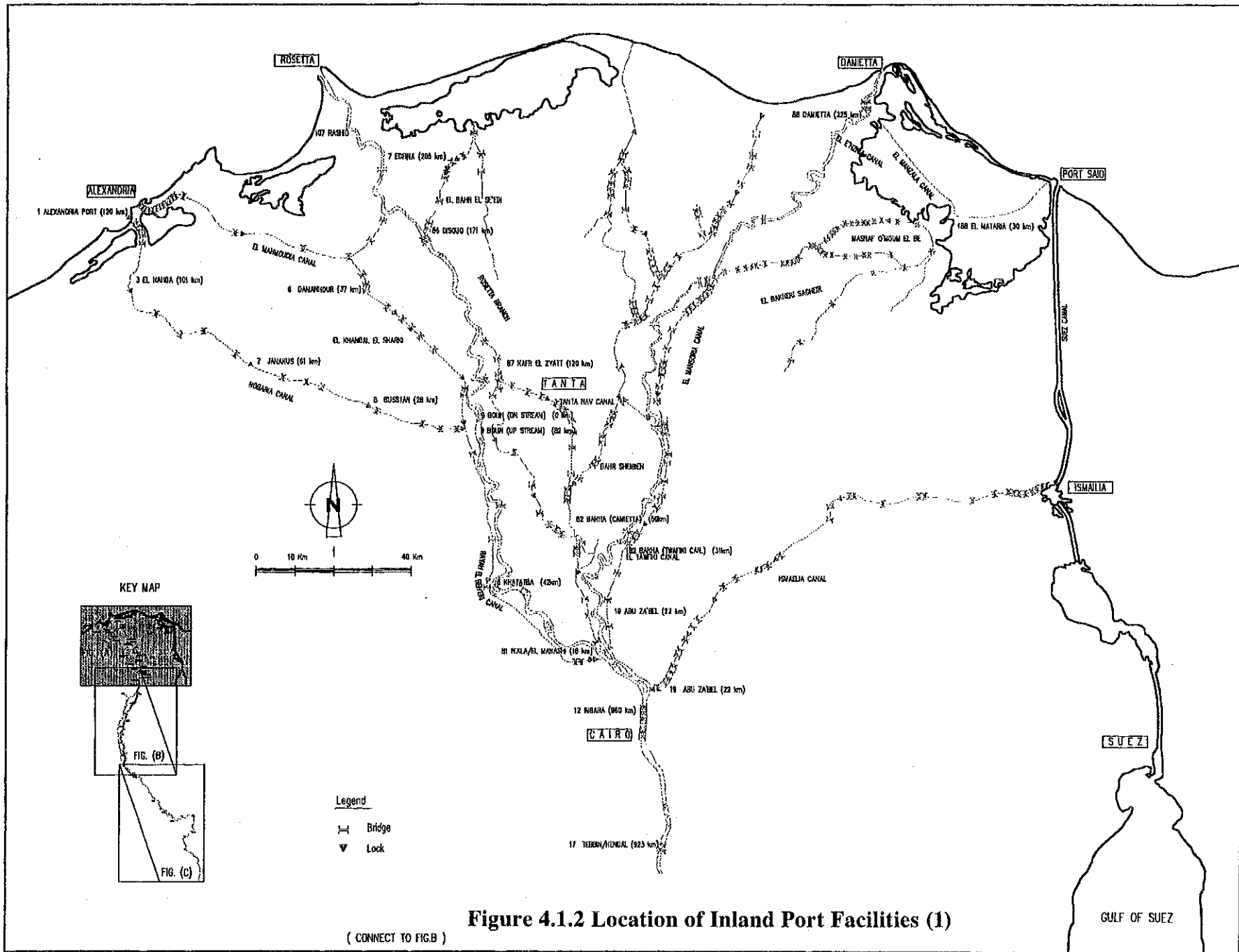


Figure 4.1.2 Location of Inland Port Facilities (1)

(CONNECT TO FIG.B)

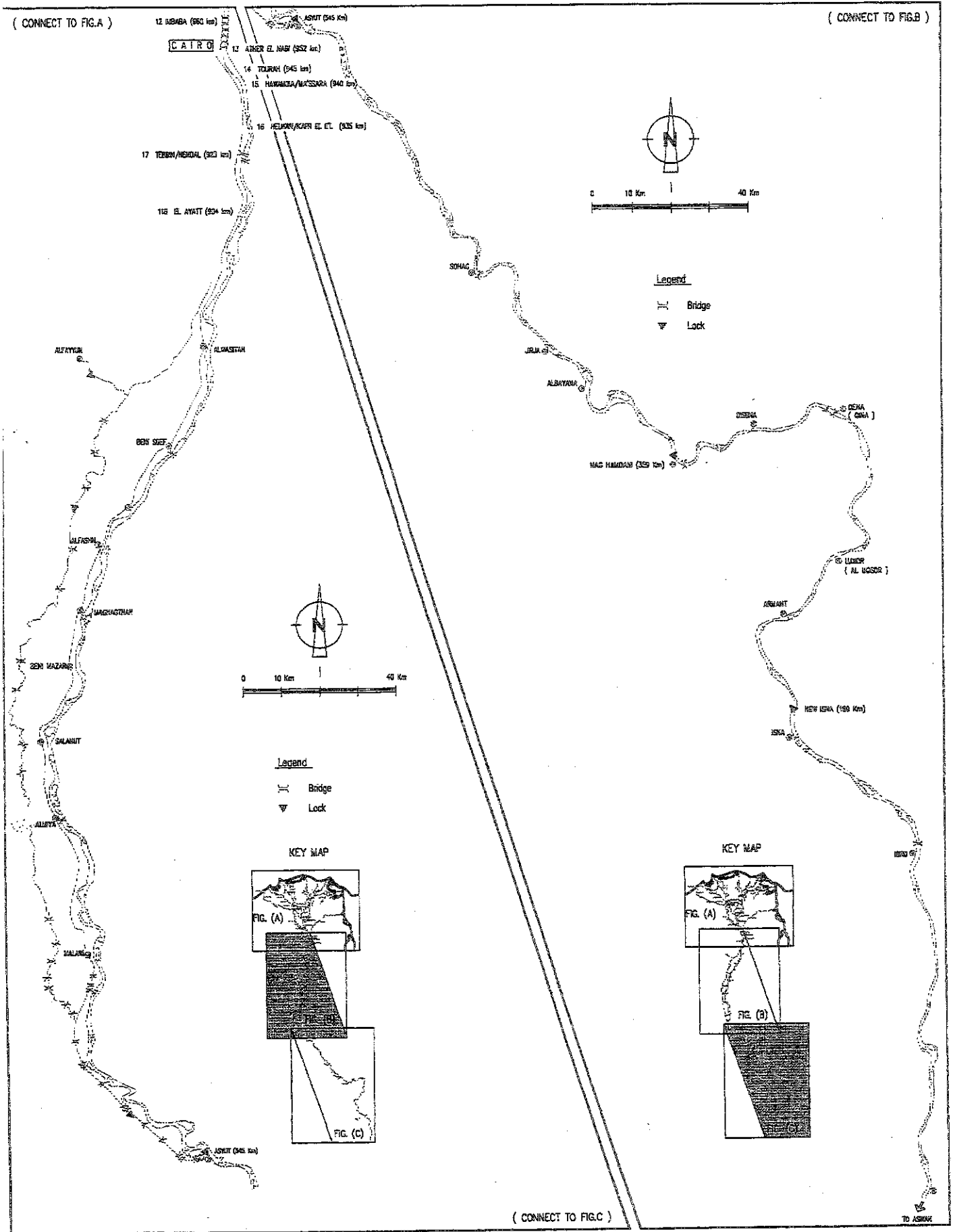


Figure 4.1.3 Location of Inland Port Facilities (2)

**Table 4.1.6 Volume of Cargo Transported by Inland Waterway in 2000  
(Total and from/to Alexandria Port)**

Unit: '000 MT

Cargo Item	Total Cargo		From / To Alexandria Port			
			Volume			Share
	Volume	Share	From Alex	To Alex	Total	
Stones	612,660	28.35%	0	0	0	0.00%
Molasses	471,930	21.83%	0	153,927	153,927	32.62%
Petroleum	364,074	16.84%	0	0	0	0.00%
Phosphate	323,811	14.98%	0	0	0	0.00%
Coke	94,805	4.39%	0	93,605	93,605	98.73%
Coal	71,978	3.33%	71,978	0	71,978	100.00%
Clay	65,784	3.04%	9,180	1,180	10,360	15.75%
Sulfur	43,275	2.00%	43,275	0	43,275	100.00%
General Cargo	24,107	1.12%	10,399	0	10,399	43.14%
Aluminum	23,799	1.10%	0	1,225	1,225	5.15%
Ferro Silicon	20,040	0.93%	20,040	0	20,040	100.00%
Other Minerals	18,201	0.84%	17,952	0	17,952	98.63%
Raw Aluminum	10,598	0.49%	10,598	0	10,598	100.00%
Sugar	9,289	0.43%	0	0	0	0.00%
Food Products	6,476	0.30%	3,000	0	3,000	46.32%
Iron & Steel Products	600	0.03%	0	0	0	0.00%
<b>Total</b>	<b>2,161,427</b>	<b>100.00%</b>	<b>186,422</b>	<b>247,532</b>	<b>433,954</b>	<b>20.08%</b>

Source: River Transport Authority (RTA)

**Table 4.1.7 Volume of Cargo Transported by Inland Waterway in 2000  
(Total and from/to the River Ports in Greater Cairo)**

Unit: '000 MT

Cargo Item	Total Cargo		From / To Greater Cairo			
			Volume			Share
	Volume	Share	From Cairo	To Cairo	Total	
Stones	612,660	28.35%	37,935	510,395	548,330	89.50%
Molasses	471,930	21.83%	73,218	318,003	391,221	82.90%
Petroleum	364,074	16.84%	156,444	0	156,444	42.97%
Phosphate	323,811	14.98%	0	294,632	294,632	90.99%
Coke	94,805	4.39%	5,015	7,391	12,406	13.09%
Coal	71,978	3.33%	94,805	0	94,805	131.71%
Clay	65,784	3.04%	0	71,582	71,582	108.81%
Sulphur	43,275	2.00%	0	55,424	55,424	128.07%
General Cargo	24,107	1.12%	0	0	0	0.00%
Aluminum	23,799	1.10%	0	22,574	22,574	94.85%
Ferro Silicon	20,040	0.93%	0	0	0	0.00%
Other Minerals	18,201	0.84%	0	0	0	0.00%
Raw Aluminum	10,598	0.49%	0	0	0	0.00%
Sugar	9,289	0.43%	0	3,981	3,981	42.86%
Food Products	6,476	0.30%	3,176	0	3,176	49.04%
Iron & Steel Products	600	0.03%	0	0	0	0.00%
<b>Total</b>	<b>2,161,427</b>	<b>100.00%</b>	<b>370,593</b>	<b>1,283,982</b>	<b>1,654,575</b>	<b>76.55%</b>

Source: River Transport Authority (RTA)

**Table 4.1.8 Inter- and Intra-Region Traffic by Inland Waterway in 2000**

Unit: MT

Region	Upper/Middle Egypt		Greater Cairo		Lower Cairo		Alexandria		Total	
Upper/Middle Egypt	<i>311,367</i>	<i>14.4%</i>	<i>1,206,754</i>	<i>55.8%</i>	0	0.0%	83,114	3.8%	1,601,235	74.1%
Greater Cairo	173,005	8.0%	0	0.0%	33,690	1.6%	166,823	7.7%	373,518	17.3%
Lower Egypt	0	0.0%	0	0.0%	252	0.0%	0	0.0%	252	0.0%
Alexandria	48,010	2.2%	77,228	3.6%	11,144	0.5%	<i>50,040</i>	2.3%	186,422	8.6%
Total	532,382	24.6%	1,283,982	59.4%	45,086	2.1%	299,977	13.9%	2,161,427	100.0%

Source: River Transport Authority (RTA)

Note: Italics indicates intra-region traffic.

Table 4.1.9 O/D Traffic by Inland Waterway in 2000 (All Products) (1/2)

Unit: MT

Origin Ports				Upper/Middle Egypt																			
Waterway	Region	Governorate	River/Sea Port	Aswan (6km)	El Aqaba (20km)	Kom Ombo (50km)	Edfu (113km)	Sibaya (148km)	Armant (207km)	Luxor (222km)	Qus (257km)	Qena (290km)	Dishna (314km)	Nag Hammadi (344km)	Girga (407km)	Sohag (446km)	Asyout (546km)	Mankabad (556km)	Abu Qurgas (673km)	El Menia (700km)	Samalout (723km)		
Nile	Upper Egypt	Aswan	Aswan (6km)	-	0	0	0	0	0	0	0	540	0	0	0	890	0	0	0	0	0	0	
			El Aqaba (20km)	0	-	0	0	0	0	410	0	38,260	0	0	0	0	0	0	0	0	0	0	0
			Kom Ombo (50km)	0	0	-	0	0	0	275	0	885	0	0	0	0	0	0	0	0	0	0	0
			Edfu (113km)	0	0	0	-	0	2,895	0	0	2,300	5,028	210	0	0	295	0	0	0	0	0	0
		Sibaya (148km)	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	29,179	0	0	0	
		Armant (207km)	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Luxor (222km)	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Qus (257km)	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	
		Qena (290km)	250	550	0	0	0	0	0	0	0	0	-	0	0	0	225	0	0	0	0	0	
		Dishna (314km)	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	
		Nag Hammadi (344km)	250	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	
		Girga (407km)	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	
	Sohag (446km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0		
	Asyout (546km)	12,279	0	0	47,055	0	8,959	17,611	12,588	21,228	28,449	20,678	0	0	0	39,063	-	0	0	0	0		
	Mankabad (556km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	-	0	0	0		
	Abu Qurgas (673km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0		
	El Menia (700km)	0	0	3,500	7,215	0	4,290	0	2,090	0	1,930	1,790	0	0	0	0	0	0	0	-	0		
	Samalout (723km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	Greater Cairo	Cairo	Tebbin (923km)	25,564	0	0	26,765	0	1,900	22,051	10,236	31,945	21,512	6,436	6,500	6,335	1,150	0	0	0	0	0	
	Helwan/Kafr (935km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Giza	Hawamdia (940km)	0	0	0	1,330	0	3,821	0	550	0	540	2,540	450	0	100	0	0	0	0	0		
	Cairo	Tourah (945km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Ather El Nabi (952km)	0	0	0	0	0	0	0	0	0	150	0	55	0	0	150	0	0	0	0	0		
	Giza	Imbaba (960km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Kalyoubia	Shoubra (967km)	1,430	0	0	145	0	300	0	0	250	0	450	0	0	150	0	0	0	0	0			
Baheira	Lower Egypt	Menoufia	Nikla (6km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Khatatba (42km)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Behera		Boulin (0km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Noubaria	Alexandria	Busstan (28km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		El Nahda (102km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		El Metrass (118km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alexandria	Alexandria	0	0	0	20,436	0	0	0	0	0	0	0	10,599	0	0	0	16,975	0	0	0			
Total				39,773	550	3,500	103,146	0	22,165	40,347	25,464	95,558	57,459	42,758	6,950	46,513	2,045	46,154	0	0	0		
				1.8%	0.0%	0.2%	4.8%	0.0%	1.0%	1.9%	1.2%	4.4%	2.7%	2.0%	0.3%	2.2%	0.1%	2.1%	0.0%	0.0%	0.0%		

Source: River Transport Authority (RTA)

(Continued)

Table 4.1.9 O/D Traffic by Inland Waterway in 2000 (All Products) (2/2)

Unit: MT

Waterway	Region	Origin Ports		Greater Cairo							Lower Egypt				Alexandria			Total			
		Governorate	River/Sea Port	Tebbin (923km)	Helwan/Kafir (935km)	Hawarandia (940km)	Tourah (945km)	Ather El Nabi (952km)	Imbaba (960km)	Shoubra (967km)	Nikla (6km)	Khatatba (42km)	Boulin (0km)	Busstian (28km)	El Nahda (102km)	El Metrass (118km)	Alexandria				
Nile	Upper Egypt	Aswan	Aswan (6km)	40,495	0	0	0	0	0	15,734	0	0	0	0	0	0	1,180	58,839	2.7%		
			El Aqaba (20km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,670	1.8%	
			Kom Ombo (50km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,160	0.1%	
			Edfu (113km)	0	0	53,718	0	380	0	0	0	0	0	0	0	0	0	0	987	65,813	3.0%
		Sibaya (148km)	0	0	0	0	0	0	0	294,632	0	0	0	0	0	0	0	0	323,811	15.0%	
		Qena	Armant (207km)	0	0	50,785	0	0	0	0	0	0	0	0	0	0	0	0	19,646	70,431	3.3%
			Luxor (222km)	0	0	0	0	300	0	0	0	0	0	0	0	0	0	0	0	300	0.0%
			Qus (257km)	0	0	65,931	0	0	0	0	0	0	0	0	0	0	0	0	9,431	75,362	3.5%
			Qena (290km)	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	1,175	0.1%
			Dishna (314km)	0	0	25,259	0	0	0	0	0	0	0	0	0	0	0	0	7,906	33,165	1.5%
	Nag Hammadi (344km)		0	0	119,239	0	0	0	0	900	0	0	0	0	0	0	0	35,250	155,639	7.2%	
	Suhag	Girga (407km)	0	0	29,271	0	0	0	0	0	0	0	0	0	0	0	0	8,714	37,985	1.8%	
		Sohag (446km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	
	Asyout	Asyout (546km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207,910	9.6%	
		Mankabad (556km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	0.0%	
	Middle Egypt	El Menia	Abu Qurgas (673km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
			El Menia (700km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,815	1.0%
			Samalout (723km)	445,125	0	0	0	64,835	0	0	0	0	0	0	0	0	0	0	0	509,960	23.6%
	Greater Cairo	Cairo	Tebbin (923km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93,605	253,999	11.8%	
			Helwan/Kafir (935km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
		Giza	Hawamdia (940km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73,218	82,549	3.8%
Cairo		Tourah (945km)	0	0	0	0	0	0	0	0	350	8,900	16,040	7,600	0	0	0	0	32,890	1.5%	
		Ather El Nabi (952km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	355	0.0%	
Giza		Imbaba (960km)	0	0	0	0	0	0	0	0	0	450	0	350	0	0	0	0	800	0.0%	
Kalyoubia	Shoubra (967km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,925	0.1%		
Baheira	Lower Egypt	Menoufia	Nikla (6km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	
			Khatatba (42km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Noubaria	Behera	Behera	Boulin (0km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	
			Busstian (28km)	0	0	0	0	0	0	0	0	0	3	249	-	0	0	0	0	252	0.0%
	Alexandria	Alexandria	El Nahda (102km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
			El Metrass (118km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
		Alexandria	71,582	0	2,366	0	0	400	2,880	4,676	6,000	468	0	6,490	43,550	-	0	186,422	8.6%		
		Total	557,202	0	346,569	0	65,515	400	314,296	5,026	15,353	16,757	7,950	6,490	43,550	249,937	2,161,427	100.0%			
			25.8%	0.0%	16.0%	0.0%	3.0%	0.0%	14.5%	0.2%	0.7%	0.8%	0.4%	0.3%	2.0%	11.6%	100.0%				

Source: River Transport Authority (RTA)









Table 4.1.16 Q/D of Inland Waterway Traffic in 2000 (Other Minerals)

Waterway	Region	Governorate	Origin Ports	Unit: MT																				
				Upper/Middle Egypt				Greater Cairo				Lower Egypt				Alexandria		Total						
Nile	Upper Egypt	Governorate	River/Sea Port	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
			Aswan (6km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Kom Omho (50km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Edfu (113km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Shibuya (148km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Middle Egypt	Governorate	Assuit (257km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Qena (290km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Assuit (446km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Assuit (546km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Assuit (556km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Assuit (567km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lower Egypt	Governorate	Shibuya (148km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Edfu (113km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Kom Omho (50km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alexandria	Governorate	El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Table 4.1.17 Q/D of Inland Waterway Traffic in 2000 (Sugar)

Waterway	Region	Governorate	Origin Ports	Unit: MT																				
				Upper/Middle Egypt				Greater Cairo				Lower Egypt				Alexandria		Total						
Nile	Upper Egypt	Governorate	River/Sea Port	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
			Aswan (6km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Kom Omho (50km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Edfu (113km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Shibuya (148km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Middle Egypt	Governorate	Assuit (257km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Qena (290km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Assuit (446km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Assuit (546km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Assuit (556km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Assuit (567km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lower Egypt	Governorate	Shibuya (148km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Edfu (113km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Kom Omho (50km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Alexandria	Governorate	El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			El Assiut (26km)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Source: River Transport Authority (RTA)





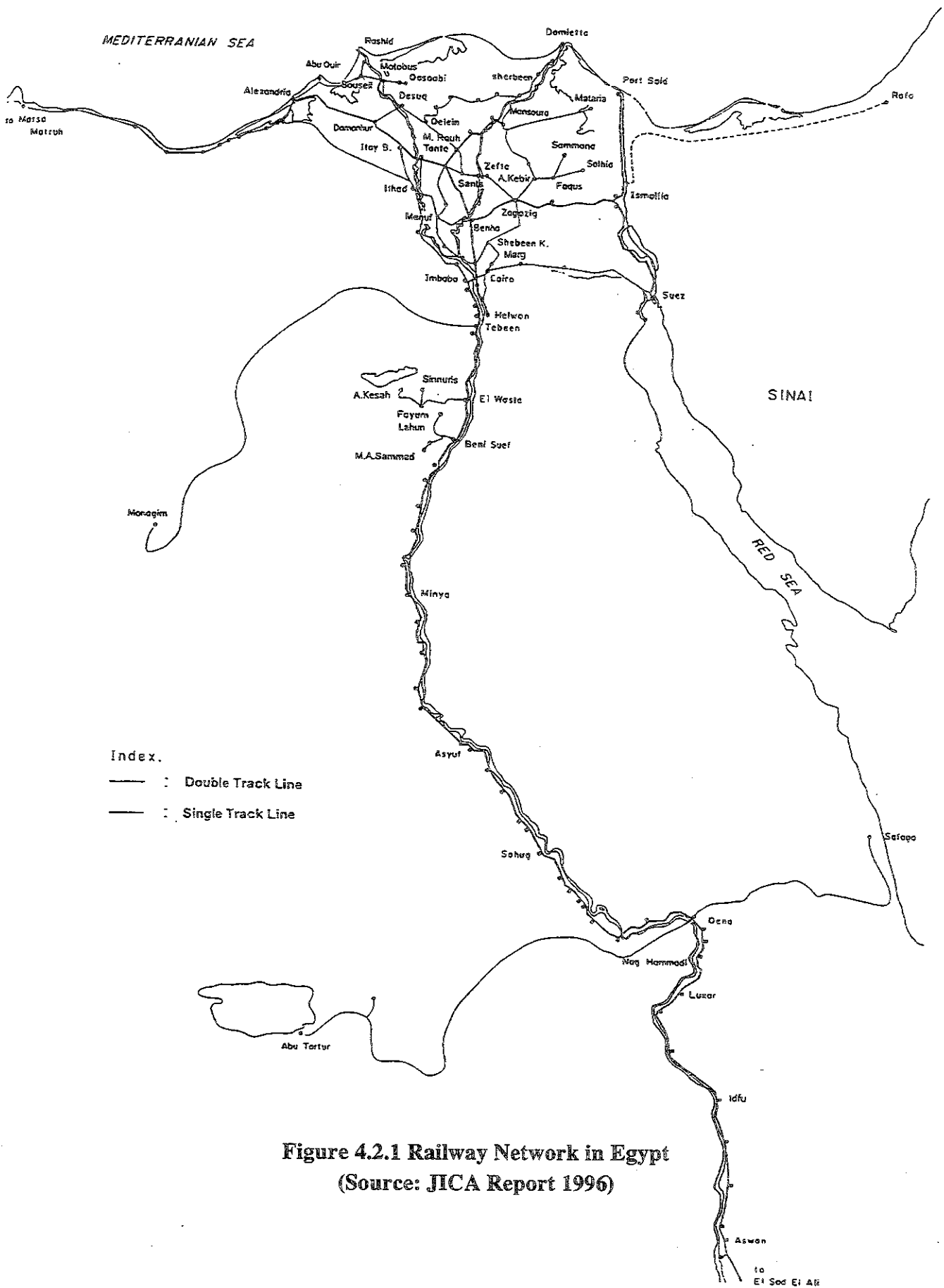






## **4.2 Railway Cargo Traffic**

In the year 2000, 11.8 million MT of cargo was transported by railway in total. In the same year, the volume of the cargo of manufacture materials accounted for 43.8%, and was composed of mostly dry bulk cargoes such as iron ore, coal, limestone and coke. The volume of agricultural cargo accounted for 17.0%, mostly cereals (wheat). Petroleum, construction materials and manufacture products accounted for 9.8%, 9.6% and 8.6%, respectively. Average transport distance by railway in the same year is 331km (see Tables 4.2.1 to 4.2.8). Railway network is shown in Figure 4.2.1.



**Figure 4.2.1 Railway Network in Egypt**  
 (Source: JICA Report 1996)

**Table 4.2.1 Volume of Cargoes Transported by Railway in 2000**

Unit: '000 MT

Cargo Item		Volume (MT)	Share	Ton-Km	Average Distance (Km)
Manufacture Materials	Iron Ore	1,957	16.6%	685,805,323	350
	Coal	1,568	13.3%	418,326,538	267
	Limestone	548	4.6%	147,526,175	269
	Coke	483	4.1%	126,850,928	263
	Clay	296	2.5%	278,910,000	942
	Raw Phosphate	319	2.7%	246,661,450	773
	Total	5,172	43.8%	1,904,080,413	368
Agricultural Products	Cereals (wheat)	1,573	13.3%	441,698,665	281
	Sugar Cane	231	2.0%	11,779,500	51
	Raw Sugar	209	1.8%	101,756,783	487
	Total	2,013	17.0%	555,234,948	276
Petroleum		1,162	9.8%	632,269,676	544
Construction Materials	Stone - Basalt	944	8.0%	93,994,500	100
	Gravel	189	1.6%	26,396,480	139
	Total	1,133	9.6%	120,390,980	106
Manufacture Products	Steel Sheets	356	3.0%	48,590,213	136
	Fertilizers (Kema-Quos)	324	2.7%	126,236,137	389
	Cement w/o Sale Tax	191	1.6%	41,252,950	216
	Railway Rails	146	1.2%	23,462,168	161
	Total	1,018	8.6%	239,541,467	235
Containers	Empty Containers, Caravans	323	2.7%	75,743,550	234
	Loaded Containers	243	2.1%	103,489,600	427
	Total	566	4.8%	179,233,150	317
Water		257	2.2%	66,900,935	260
Others		491	4.2%	206,800,911	421
Grand Total		11,812	100.0%	3,904,452,480	331

Source: Transport Planning Authority, Ministry of Transport

Table 4.2.2 O/D Traffic by Railway in 2000 (Iron Ore)

O/D (Iron Ore)		Destination																											Total								
		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									
Origin	1 Cairo (Tebeen)																																				
	2 Alexandria (Port)																																				
	3 Port-Said (Port)																																				
	4 Suez (Port)																																				
	5 Damietta (Port)																																				
	6 Dakahlia																																				
	7 Sharkia				66					513																											
	8 Kalyoubia																																				
	9 Kafr-El-Sheikh																																				
	10 Gharbia d																																				
	11 Menoufia																																				
	12 Behera																																				
	13 Ismailia																																				
	14 Giza																																				
	15 Beni-Suef																																				
	16 Fayoum																																				
	17 Menia																																				
	18 Asyout																																				
	19 Suhag																																				
	20 Qena																																				
	21 Aswan																																				
	22 Luxor																																				
	23 Red Sea	1,955,083																																		1,955,083	99.97%
	24 El-Wadi El-Gdid																																				
	25 Matrouh																																				
	26 North Sinai																																				
	27 South Sinai																																				
Total	1,955,083			66					513																									1,955,662	100.00%		
		99.970%		0.003%					0.026%																									100.0%			

Source: Ministry of Transport

Table 4.2.3 O/D Traffic by Railway in 2000 (Coal)

O/D (Coal)		Destination																											Total							
		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								
Origin	1 Cairo (Tebeen)																																			
	2 Alexandria (Port)	1,512,838			8,465																														1,521,303	97.0%
	3 Port-Said (Port)																																			
	4 Suez (Port)	46,815																																	46,815	3.0%
	5 Damietta (Port)																																			
	6 Dakahlia																																			
	7 Sharkia																																			
	8 Kalyoubia																																			
	9 Kafr-El-Sheikh																																			
	10 Gharbia (Tanta)																																			
	11 Menoufia																																			
	12 Behera																																			
	13 Ismailia																																			
	14 Giza																																			
	15 Beni-Suef																																			
	16 Fayoum																																			
	17 Menia																																			
	18 Asyout																																			
	19 Suhag																																			
	20 Qena																																			
	21 Aswan																																			
	22 Luxor																																			
	23 Red Sea																																			
	24 El-Wadi El-Gdid																																			
	25 Matrouh																																			
	26 North Sinai																																			
	27 South Sinai																																			
Total	1,559,653			8,465																															1,568,118	100.0%
		99.5%		0.5%																														100.0%		

Source: Ministry of Transport



Table 4.2.6 O/D Traffic by Railway in 2000 (Steel Sheets)

O/D (Steel Sheets)		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	
Origin	1 Cairo (Tebeen)	970					190		190		52,160		150	15,500	240			32,120			720					100		102,340	28.7%	
	2 Alexandria (Port)																	150										150	0.0%	
	3 Port-Said (Port)																													
	4 Suez (Port)																													
	5 Damietta (Port)																													
	6 Dakahlia	60	70								40																		170	0.0%
	7 Sharkia																				160		238						398	0.1%
	8 Kalyoubia										1,250																		1,250	0.4%
	9 Kafr-El-Sheikh																													
	10 Gharbia (Tanta)	8,570	5,290		5,750	600	17,750	34,190	26,830	14,810	21,860	41,330	15,900	850	1,750			450	90	350	150					300		196,820	55.2%	
	11 Menoufia																													
	12 Behera																													
	13 Ismailia														570														570	0.2%
	14 Giza																													
	15 Beni-Suef															40													40	0.0%
	16 Fayoum																													
	17 Menia													800				12,595	4,300	50									17,745	5.0%
	18 Asyout	40																1,840		870	40							2,790	0.8%	
	19 Suhag	140	40															270	480	270								1,200	0.3%	
	20 Qena	50			1,295						410				8,250			21,240				1,500				50		32,795	9.2%	
	21 Aswan																													
	22 Luxor																													
	23 Red Sea																													
	24 El-Wadi El-Gidid																													
	25 Matrouh																													
	26 North Sinai																													
	27 South Sinai																													
<b>Total</b>	<b>9,830</b>	<b>5,400</b>		<b>7,045</b>	<b>600</b>	<b>17,940</b>	<b>34,190</b>	<b>27,020</b>	<b>14,810</b>	<b>21,860</b>	<b>41,330</b>	<b>16,050</b>	<b>25,970</b>	<b>1,990</b>	<b>40</b>		<b>68,665</b>	<b>4,870</b>	<b>1,700</b>	<b>910</b>	<b>1,738</b>				<b>450</b>		<b>356,268</b>	<b>100.0%</b>		
	2.8%	1.5%		2.0%	0.2%	5.0%	9.6%	7.6%	4.2%	21.3%	11.6%	4.5%	7.3%	0.6%	0.0%		19.3%	1.4%	0.5%	0.3%	0.5%				0.1%		100.0%			

Source: Ministry of Transport

Table 4.2.7 O/D Traffic by Railaw in 2000 (Fertilizer)

O/D (Fertilizer)		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	
Origin	1 Cairo																													
	2 Alexandria (Abu Qeer)				6,154	#####		480			224				2,240		3,200	5,728	43,200	8,864								210,741	64.98%	
	3 Port-Said																													
	4 Suez (Port)																													
	5 Damietta																													
	6 Dakahlia				6,240				480							280		4,440	680	14,600									26,720	8.24%
	7 Sharkia																													
	8 Kalyoubia																													
	9 Kafr-El-Sheikh																													
	10 Gharbia																													
	11 Menoufia																													
	12 Behera																													
	13 Ismailia																													
	14 Giza																													
	15 Beni-Suef																													
	16 Fayoum																													
	17 Menia																													
	18 Asyout																													
	19 Suhag																													
	20 Qena																												1,390	0.4%
	21 Aswan											1,350					50	10,100	18,030	38,700	12,850	4,400						85,480	26.4%	
	22 Luxor																													
	23 Red Sea																													
	24 El-Wadi El-Gidid																													
	25 Matrouh																													
	26 North Sinai																													
	27 South Sinai																													
<b>Total</b>				<b>12,394</b>	<b>#####</b>		<b>960</b>			<b>1,574</b>				<b>2,570</b>		<b>17,740</b>	<b>24,438</b>	<b>96,500</b>	<b>23,104</b>	<b>4,400</b>							<b>324,331</b>	<b>100.0%</b>		
				3.8%	43.4%		0.3%			0.5%				0.8%		5.5%	7.5%	29.8%	7.1%	1.4%							100.0%			

Source: Ministry of Transport

Table 4.2.8 O/D Traffic by Railway in 2000 (Cereals)

O/D (Cereals)		Destination																											Total	
		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		
Origin	1 Cairo																												63,944	4.1%
	2 Alexandria (Port)										24,531					13,219		11,768	14,427										191,207	12.2%
	3 Port-Said (Port)								98,412		8,415					57,183		8,479	11,142	3,355	2,805	1,416								
	4 Suez																													
	5 Damietta (Port)										#####					#####	36,305	17,605	30,430	8,530	45,735	30,145							#####	73.1%
	6 Dakahlia																													
	7 Sharkia																													
	8 Kalyoubia (Shubra)																					14,134	2,840						16,974	1.1%
	9 Kafr-El-Sheikh																													
	10 Gharbia (Tanta)																													
	11 Menoufia																													
	12 Behera																													
	13 Ismailia																													
	14 Giza (Embaba)																													
	15 Beni-Suef																													
	16 Favoum																													
	17 Menta																													
	18 Asyout																													
	19 Subag																						1,431						1,431	0.1%
	20 Qena																													
	21 Aswan																													
	22 Luxor																													
	23 Red Sea (Safaga)									10,317						7,787	11,630	19,571	13,080	43,056	18,077	25,792						149,311	9.5%	
	24 El-Wadi El-Glad																													
	25 Matrouh																													
	26 North Sinai																													
	27 South Sinai																													
Total									42.1%		10.7%				22.8%	3.9%	2.9%	4.2%	4.4%	5.1%	3.9%						100.0%	100.0%		

Source: Ministry of Transport

### 4.3 Road Traffic

The road network in Egypt is shown in Figure 4.3.1 and the annual daily traffic by road in 2000 is shown in Table 4.3.1 to 4.3.14. Considering the traffic through the permanent station, Cairo-Banha route is the most frequent route and it is 7.69% of all traffic.



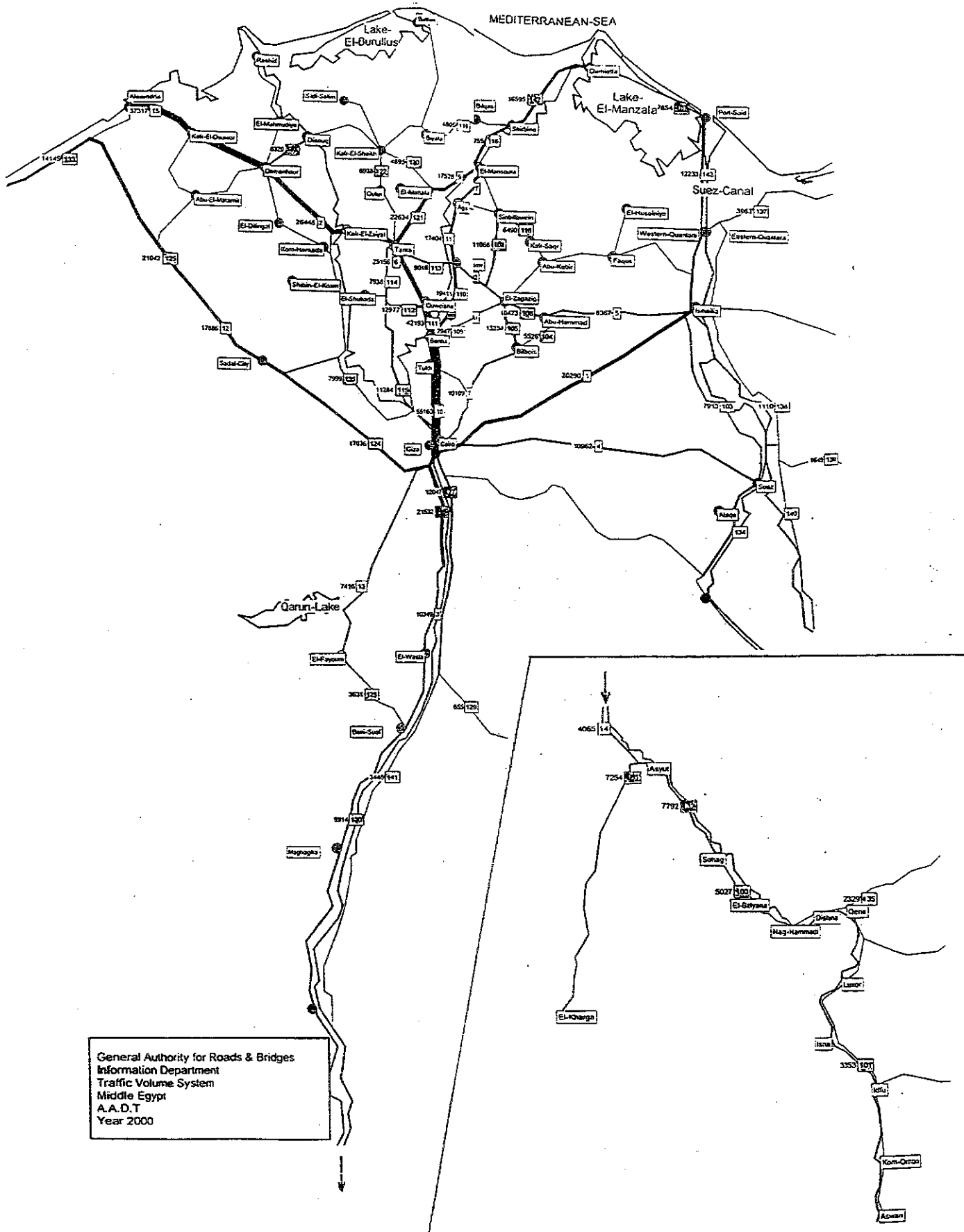


Figure 4.3.1 Road Network in Egypt

Table 4.3.1 Annual Average Daily Traffic by Road in 2000

	Station No.	Location (From)	Location (To)	Annual Traffic	Ratio	Rank
Permanent Station	1	Cairo	Ismailia	20,290	2.83%	9
	2	Damanhour	Tanta	26,448	3.69%	4
	3	Giza	Beni Suef	10,349	1.44%	27
	4	Cairo	Suez	10,962	1.53%	25
	5	Ismailia	Abu Hammad	8,367	1.17%	33
	6	Tanta	Quweisna	25,156	3.51%	5
	7	Bilbeis	Abu Zaabal	10,109	1.41%	29
	9	Talkha	El Mahalla El Kubra	17,528	2.44%	12
	10	Cairo	Banha	55,163	7.69%	1
	11	Mansoura	Mit Ghamr	17,404	2.43%	13
	12	Cairo	Alexandria	17,886	2.49%	11
	13	Giza	Al Faiyum	7,416	1.03%	41
	14	El Minya	Assute	4,065	0.57%	49
	15	Alexandria	Damanhour	37,317	5.20%	3
	Temporary Station	100	Sohag	Nag Hammadi	5,027	0.70%
101		Isna	Idfu	3,353	0.47%	54
102		Zagazig	Mit Ghamr	8,782	1.22%	32
103		Ismailia	Suez	7,913	1.10%	38
104		Belbes	Abbassa	5,526	0.77%	45
105		Zagazig	Belbeis	13,234	1.84%	19
106		Zagazig	Abu Hammad	10,473	1.46%	26
107		Damietta	Port Said	7,854	1.09%	39
108		Zagazig	El Sinbillawein	11,068	1.54%	24
109		Benha	Minya El Qamh	7,947	1.11%	36
110		Kafr Shukur	Mit Ghamr	19,411	2.71%	10
111		Quweisna	Benha	42,193	5.88%	2
112		Quweisna	Shibin El Koam	12,977	1.81%	20
113		Tanta	Zefta	9,016	1.26%	30
114		Tanta	Shibin El Koam	7,938	1.11%	37
115		El Qanatir	El Bagour	11,284	1.57%	23
116		Sinbillawein	Kafr Saqr	6,490	0.90%	44
117		Aga	El Mansoura	17,045	2.38%	14
118		Talkha	Sherbin	16,755	2.33%	16
119		Bilqas	Biyala	4,805	0.67%	48
120		Kafr El Sheikh	El Mahalla El Kubra	4,895	0.68%	47
121		Tanta	El Mahalla El Kubra	22,634	3.15%	6
122		Tanta	Kafr El Sheikh	6,938	0.97%	43
123		Disouq	Damanhour	8,329	1.16%	34
124		Giza	El Khatatba	17,036	2.37%	15
125		Abu El Matameer	Alexandria	21,042	2.93%	8
126		Giza	El Aiyat	21,532	3.00%	7
127		Helwan	El Saff	12,047	1.68%	22
128		El Fayoum	Beni Suef	3,631	0.51%	51
129		Kuraimat	Ras Zafarana	655	0.09%	58
130	Beni Suef	El Minya	8,914	1.24%	31	
131	Assute	El Kharga	7,254	1.01%	42	
132	Assute	Sohag	7,792	1.09%	40	
133	El Agamy	Marsa Matrouh	14,145	1.97%	18	
134	El Qattameya	Ras Zafarana	10,297	1.43%	28	
135	Qena	Safaga	2,329	0.32%	55	
136	El Khatatba	El Qanatir	7,999	1.11%	35	
137	El Qantara	El Areesh	3,963	0.55%	50	
138	Tunnel	El Qantara	1,110	0.15%	57	
139	Tunnel	Nuweiba	1,649	0.23%	56	
140	Tunnel	Sant Katrin	3,558	0.50%	52	
141	Beni Suef	Kuraimat	3,448	0.48%	53	
142	Damietta	Shirbin	16,595	2.31%	17	
143	Port Said	Ismailia	12,233	1.70%	21	
Total				717,576	100.00%	

Source: General Authority for Roads & Bridges and land Transport