## 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).

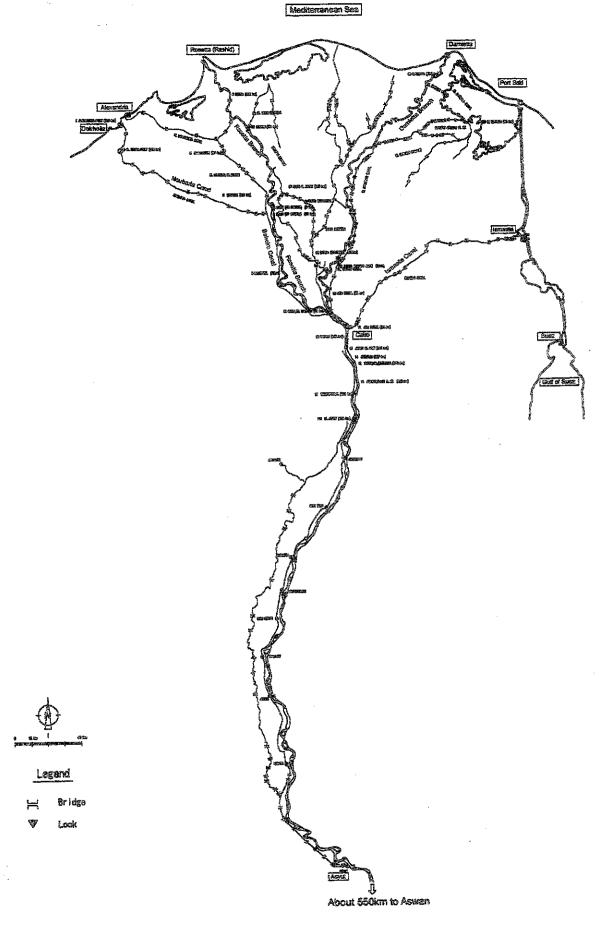


Figure 4.1.1 Location of Port in Egypt

Table 4.1.1 Historical Trend of Cargo Volume Handled at Alexandria Ports (including Dekheila Port) in 1991-2000

																											γ				Unit: '000	MT
		1	<u> </u>	1991	,		1992			1993			1994		<u> </u>	1995			1996			1997			1998			1999			2000	
Packag	ge Style	Commodity	Import	Export	Total	noqml	Export	Total	Import	Bxport	Total	Import	Export	Total	Import	Export	Total	Import	Export	Total	Import	Вхрогі	Total	Import	Export	Total	Import	Export	Total	Import	Export	Total
		Miscellaneous	3,216	655	3,871	3,944	1,190	5,134	5,434	949	6,383	2,858	274	3,132	2,695	432	3,127	3,880	432	4,312	2,889	5.5	2,944	3,948	435	4,383	3,740	419	4,158	1,869	314	2,18
		Frozen Pond	157		157	182		182	228	8	236	232		232	223		223	168		168	164		164			0			0			
	Suitable for	Lash Catgo	94	6	100	86	t	87	70		70			0	115	- 1	116	150	2	152	122		122			0			0			
	container cargo	Citrus		61	61		40	40		8	- 8		104	104	T	14	14		16	[6		12	12			a			0			
	commence cango	Cotton		3	3		4	4		1	1		4	4		7	7		i	ī			G			0			0			· · · · ·
		Fiber		15	15		5	5		3	3		3	3			0			ຄ			. 0			0			0	-		
		Sub-total	3,467	740	4,207	4,212	1,240	5,452	5,732	969	6,701	3,090	385	3,475	3,033	454	3,487	4,198	451	4,649	3,175	67	3,242	3,948	435	4,383	3,740	419	4,158	1,869	314	2,18
		Timber	986		986	904		904	1,237		1,237	1,157		1,157	1,501		1,502	1,440	T	1,440	1,629	3	1,632	1,710		1,710	1,624		1,624	1,946		1,94
Conventional		Sugar	293		293	132		132	152		152	368	147	515	521	7	528	406		406	661		661	660		660	660		660	668		66
Cargo	Statistically	Paper	247		247	342		342	196		196	296		. 296	333	1	334	300	2	302	172	1	173	170		170	170		170	170		17
	Mixed	Rice		62	62	- 1	92	92		38	38		114	114	1	61	62	2	123	125	1	49	50			0			0			
		Flour	429		429	104		104	502		502	284		284	257		257	84		84	53		- 53	44		44	46		46	46		4
		Sub-total	1,955		2,017	1,482	92	1,574	2,087	38	2,125	2,105	261	2,366	2,613	70	2,683	2,232	125	2,357	2,516	53	2,569	2,584	0	2,584	2,500	0	2,500	2,830	0	2,83
		Iron/Steel Products	250	_	250	63	4	67	566	123	689	499	96	595	539	61	600	676		676	293	192	485	449		449	402		402			
	Unsuitable for	Scrap	114		114	109		109	96		96	74		74	62		62	201		201	16		16			0			0			
	container cargo	Cars	3	1	4	12		12	<b>i</b> 1		- 11	36	. 1	37			27	17		17	10		10			- 0			0			
		Livestock	1		<u>_</u> _	15		15	176		176	72		72			48	33		33	6		6			0			Ð			
		Sub-total	368		369	199	- 4	203	849	123		681	97	778		61	737	927	0	927	325	192	517	449	0	449	402	0	402	0	0	(
		Total	5,790	803		5,893	1,336		8,668	1,130		5,876	743	6,619	6,322	585	6,907	7,357	576	7,933	6,016	312	6,328	6,981	435	7,416	6,642	419	7,060	4,700	314	5,014
Conta	ainers	7000 MT	1,417	544		1,201	472	1,673	1,261	491	1,752	1,648	613	2,261	2,153	776	2,929	2,237	764	3,001	2,680	784	3,464	3,400	1,200	4,600	3,826	1,338	5,164	3,781	1,254	
		(% of Containcrization)			31.8%			23.5%			20.7%			39.4%			45.7%			39.2%			51.7%			51.2%			55.4%			69.8%
		Wheat	843		843	1,155		1,155	1,014		1,014	820		820	1,393		1,393	1,456		1,456	1,998	18	2,016	2,442		2,442	2,223		2,223	3,587		3,587
		Maize			0	410		410	1,875		1,875	1,584		1,584	1,849		L,849	1,468		1,468	2,077		2,077	2,257		2,257	3,031		3,031	3,370		3,370
		Tron Pellets	1,337		1,337	1,604		1,604	1,640	13	1,653	1,557		1,557	1,257		1,257	1,394		1,394	1,988	7	1,995	3,146	1	3,146	2,180		2,180	3,222		3,222
		Coal	1,312		1,312	1,412		1,412	1,556		1,556	1,732		1,732	1,568		1,568	1,833		1,833	1,659		1,659	1,936		1,936	1,704	[	1,704	1,691		1,69
		Coke			0			0		148	148		378	378		371	371			0		306	306		12	12			0			
Dry	Bulk	Cement			0			О		~~	0.			0	339		339			0	976		976	1,283		1,283	1,759	2	1,760	939	1	940
		Sulphur			0			0			0	207		207	172		172	235		235	349		350			a			0			C
		Pertilizer	569	54	623	124	321	445	284	86	370	145	118	263	254	45	299	372	9	381	239	19	258	151	147	298	177	142	319	126	311	437
		Salt			0			0			Ð		182	182		153	153	3	198	201		235	235			0			0			
		Others			. 0			0			0	307	17	324	180		184	112	4	116	413		414		5	5		1	1			
		Total	4,061	54	4,115	4,705	321	5,026	6,369	247		6,352	695	7,047	7,012	573	7,585	6,873	251	7.084	9,699	587	10,286	11,215	164	11,379	11,073	144	11,217	12,934	312	13,240
		Petroleum Oil	4,839	2,365	7,204	506	1,926	2,432	436	2,880	3,316	135	3,084	3,219		2,652	2,821	622	2,762	3,384	614	2,956	3,570	975	2,41B	3,393	945	2,955	3,900	1,397	2,533	3,930
Liquid	l Bulk	Oil and greese	645		645	537		537	681		681	463	!	463	557		557	536		536	538	3	541	560		560	473		473	546		546
		Mollases		131			154	154		180	180		170	170		246	246		223	223		186	186		250	250		328	328		370	370
		Total	5,484	2,496	7,980	1,043	2,080	3,123	1,117	3,060	4,177	598	3,254	3,852	726		3,624	1,858	2,985	4,143	1,152	3,145	4,297	1,535	2,668	4,203	1,417	3,283	4,700	1,943	2,903	4,846
	Crand To Port Authority	[A]	16,752	3,897	20,649	12,842	4,209	17,051	17,415	4,928	22,343	14,474	5,305	19,779	16,213	4,832	21,045	17,625	4,536	22,161	19,547	4,828	24,375	23,131	4,467	27,598	22,958	5,184	28,142	23,357	4,783	28,140

Note: Transchipped containers are excluded.

Table 4.1.2 Historical Trend of Cargo Volume Handled at Red Sea Ports in 1991-2000

																													ι	Unit: 1000	MT
Package Style	Commodity		1991		ļ	1992			1993			1994			1995			1996			1997			1998			1999			2000	
			Export		Import		Total	Import	Export	Total	Import	Export	Total	Import	Export		Import	Export	Total		Export		Import	Export	Total		Export	Total	Import	Export	Total
	General Cargo/Containers	1,043	683	1,726	965	552	1,517	595	. 712	1,307	623	590	1,2[3	719	549	1,268	833	771	1,604	771	630	1,401	832	806	1,638	1,552	1,065	2,617	1,912	1,348	3,26
	Other agri. Productss																						l			17	5		47	. 4	51
Conventional Cargo /Containers	Special Cargoes	4	!		1		1	45	2	47	5	9	14	8	4	12	32	8	40	93	14	107	223	25	248	395	40	431	356	37	392
	Iron/Steel Products	372		372	426	1	426	367		367	372		372	352	0	352	309	0	309	349	0	349	394	0	394	380		380	365	2	392 366
	Total	1,419	684			552	1,944	1,007	714	1,721	1,000	599	1,599	1,079	553	1,632	l,174	779	1,953	1,213	644	1,857	1,449	831	2,280	2,344	1,111	3,428	2,680	1.390	4,069
·	Wheat	2,001		2,001	1,424		1,424	1,524		1,524	1,263		1,263	396	0	396	1,035		1,035	700		700	1,239		1,239	1,166	·	1.166	1,020		1,020
	Maize									i	37		37		0	U)	- 0		1	42		42						8	4		4
	Cement	6	49	55	5	293	298		619	619		247	247		100	100	0	258	258	10	20	30	306	9	315	1.625	2	1,626	822		822
Dry Bulk	Cnal	103		103	93		93	216	12	228	145	38	183	166	16	182	110	18	128	139	1	140	98	26	124	104	õ	104	53	25	16
DIY DUL	Pertilizer		109	109	15	120	135	5	47	52	1	171	172		270	270	4	277	281	16	159	175	26	151	177	1	119	129	13	91	104
	Phosphate		154			158	158		156	156		185	185		111	10	ol	93	93	0	163	163	OK.	139	139	- 1	201	189		355	355
	Other Dust and Metal				4	93	97	23	224	247	38	235	273	38	388	426	130	258	388	67	300	367	196	228	424	1,261	147	1,410	149	169	318
	Total	2,110	312	2,422	1.5415	664	2.205	1.768	1.058	2.826	1.484	876	2,360	600	885	1.485	1.279	904	2,183	974	643	1,617	1.865	553	2,418	4,159	470	4,632	2,061	641	2,701
	Petroleum	1,961	670	2,631	1,595	599	2.194	1.604	1.285	2.889	1.022	1.235	2,257	1,014	1,287	2,301	1,693	1,723	3,416	1,045	718	1,763	886		1,280	778	323	1,101	958	276	
	Oil and groese	IÖİ		101			142	183	- 1,2.11	183	268		268	309	- d	300	452		452	325		325	291		291	107	797	397	390		1,234
Liquid Bulk	Molasses																					020				777	32	12		+	
	Total	2.062	670	2,732	1.737	599	2.336	1 282	1.285	3.072	1.290	1 235	2.525	1 123	1 287	2.610	2,145	1.723	3,868	1.370	718	2,088	1.177	394	1,571	1,175	355	1,530	1,348	276	1,624
Grand To		5,591	1.666			1815	6 485	4 562	1.052	7619	1 774	2 710	6 484	3.002	2 725	5.727	4 508	1407	8004	3.557	2.005	5.562	4.491	1 778	6.269	7.678	1,935	9,590		2,306	8.394
upper The Minister of Transport		-1-21	7,777		4,010	11101	V-703	702		1,015	5,774	21/102				2,127	اه و رود	,,,400	25,04741	1,000	C(A)	11125	7,971	1,770	0,209		1,933	3,3513	0,060	2,100	0,39

Source: The Ministry of Transport Note: Transshipped containers are excluded.

Table 4.1.3 Historical Trend of Cargo Volume Handled at Dandetta Port in 1991-2000

																												41100	y		Unit: '000 2000	MT
				1991		L	1992			1993			1994			1995			1996			1997			1998			1999			2000	_
Packaş	ge Style	Commodity	Import	Export	Total	Emport	Вхроп	Total	Import	Export	Total	Import	Export	Total	Import	Export	Total	Import	Export	Total	Import	Export	Total	lmport	Export	Total	Import	Export	Total	Import	Export	Ŧ
		General Cargo		6	(		3	3		21	21		33	33		57	57		418	41B		37B	378	547	265	812	115	141	256	152	176	ļ
	Suitable for	Fish and Meat	1			)]		0	124		124	83		83	62		62	124		124	138		138			0			0			L.
	container cargo	Other Agri. Products	1		-			0	13B		138	165		165	59		59	102		102	71		71			0			0			1
	ľ	Sub-total	0	6	1	si v	3	3	262	21	283	248	33	281	121	57	17R	226	418	614	209	378	587	547	265	812	115	141	256	152	176	Ĺ.
		Timber	1		,	7		0	7B		78	170		170	147		147	135		135	197		197	427		427	345		345	457		L
nventional	Statistically	Flour						O	43		43	f1		11			0			0			0			0			0			L
Cargo	Mixed	Other Special Cargo	25		25	33		33	2		2	6		6	74		74	70	8	78	31	9	40	30	8	38	30	4	34	30	3	Į.
	l t	Sub-total	25		25	33	0	33	121	D	123	187	0	187	221	0	221	205	Я	213	228	9	237	457	8	465	375	4	379	487	13	L
	Unsuitable for	Iron/Steel Products				5		D.			0			0			0			0	622		622	963		963	728		728	312	[4]	1
	container cargo	Sub-total	0	0		0	0	0	0	0	0	0	0	: O	. 0	0	0	0	0	0	622	0	622	963	0	963	728	0.	728	312	141	ı
		Total	25	6	31	33	3	36	385	21	406	435	33	468	342	57	399	431	426	857	1,059	387	1,446	1,967	273	2,240	1,217	146	1,363	951	320	
		'000 MT		1		3	20	23	51	56	107	135.	133	268	229	192	421	214	233	447	271	317	588	280	270	550	259	172	431	439	278	L
Local C	ontainers	(1000 TEUs)				1															and control by				<u> </u>							ļ
		(% of Containerization)	1	1				88.5%			27.4%			48.8%			70.3%			41.0%			50.0%			40.4%			62.8%			Ļ
		Wheat	1,707		1,703	2,090		2,090	1,344		1,344	2,200		2,200	2,151		2,151	2,243		2,243	2,544		2,544	1,980		1,980	2,448		2,448	1,799	5	1
	i	Maize				137		137	301		301	380		380	705		705	651		651	1,147	L:	1,147	1,071	<u> </u>	1,071	1,469	29	1,498	1,707	6.7	1
		Soyahean	1	i		0		0			0			0	151		151	303		303	243		243			0	404	20	424	362	4	1
Dry	Bulk	Coment	1	T	-	0		Ó	2		2	432		432	1,126		1,126	1,359		1,359	1,686		1,686	2,251		2,251	1,943	0	1,943	1,891	<b>└</b> '	ļ
		Festilizer	1	23	2:	3	52	52	[	16	Ló	13	177	190	8	27	35	18	53	71	7	130	137	26	198	224	8	262	270	51	37/	Ŧ
	ľ	Other Dust and Metal			1	0 7	17	24	2	31	33	23	8	31	147	7	154	658	26	684		h2	65	L	40	40	59	90	148	135	144	4
		Total	1,707	23	1,730	2,234	69	2,103	1,649	47	1,696	3,048	185	3,233	4,288	34	4,322	5,232	79	5,311	5,630	192	5,822	5,328	238	5,566	6,330	401	6,731	5,945	588	ļ
		Petroleum				n		0			0			0						0			0	14	<u> </u>	14	70		70	131		Ŧ
		Oil and greese		1							L				L		<u></u>							35	5	35	45			55		Į.
Liqui	id Bulk	Molasses															L							ļ	ļ			41			53	Į.
		Total	0	) 0		0 0	0	0	1 0	0	0	0	0		0	0	0	0	0	0	0	0	0	49	0	49	115	41	70	186	53	ŀ
	Grand To	tal	1,732	2 25	1,76	1 2,270	92	2,362	2,085	124	2,209	3,618	351	3,969	4,859	283	5,142	5,877	738	6,615	6,960	896	7,856	7,624	781	8,405	7,922	760	8,595	7,521	1,240	1

Source: Damietta Port Authority Note: Transshipped containers are excluded.

Table 4.1.4 Historical Trend of Cargo Volume Handled at Port Sald Port in 1991-2000

																														,	Unit: '000	MT
				1991			1992			1993		T	1994			1995			1996			1997			1998			1999			2000	
Packa	ge Style	Commodity	Import	Export	Total	Import	Export	Total	Import	Вхрон	Total	Import	Export	Total	Import	Export	Total	Import	Вхроп	Total	Import	Export	Total	Import	Bxport	Total	Import	Export	Tolal	Import	Export	Total
		General Cargo	149	8	157	205	[]	2[6]	230	17	247	253	14	267	294	63	357	258	66	324	243	32	275	222	79	301	283	111	394	267	2.5	292
	Sultable for	Frozen Pood	62		62	48	2	30	43	3	46	37	<u> </u>	38	41		42	32	1	33	45		45	38		38	28		28			0
	container cargo	Other Agri. Products		81	18		30	36		14	)4		16	16		52	52		90	90		57	57		68	68	اجيحا	37	37			0
	1 1	Sub-total	211	89	300	253	43	296	273	34	307		31	321		116		290	157	447	288	89	377	260	147	407	311	148	459	267	25	292
		Sugar	268	- 3	271	206	10	216	44	9	53	135	6	141	304	- 9	313	37		371	308		308	169		169	59		59	72]		72
Conventional	Statistically	Flour	1		0	I		0			0	15		15	4		4	25		25	24		24			0	$\vdash$					- 0
Cargo	Mixed	Other Special Cargo	62		62	118	2	120	118	3	121			137		2	164	32	1	33	57		57	68		68	49		49			0
		Sub-total	330	3	333	324		336	162	12	174	286	1	293	470	11	481	94	1	95	389	0	389	237	0	237	108	0	108	72	0	72
	Unsuitable for	Iron/Steel Products	21		21	56	i	56	44		44	108		108	167		167	273		273	118		118	154		154	95		95	41	133	174
	container cargo	Sub-total	21	0	21	56	0	56	44	0	44	108	- 6	108	167	0	167	273	0	273	118	0	118	154	0	154	95		95]	41	133	174 538
	,	Total	562	92	654	633			479	46	525			722	972	127	1,099	657	158	815	795	89	884	651		798	514	148	662	3B1	158	538
		'000 MT	243	89	332	322	123	445	314	127	141	343	128	471	409	157	566	485	194	679	537	209	746	687	442	1,129	604		700	591	97	688
Local C	Containers	('000 TEUs)																		i—l						43.55	$\longrightarrow$					20.00
	1	(% of Containerization)			1			60.1%	<u>L</u> .		59.0%		L	59.5%			55.7%			60.3%			66.4%			73.5%	اا		60.4%			70.2% 760
		Wheat	496		496			1,064			770	1,605		1,605			1,937	1,621		1,621	1,678		1,678	1,264		1,264	727		727	760		760
	İ	Malze	884		884	216		216	[2]		121	17	l	71	158		158	27		27	- 0		0	. 0		. 0				29		29
_		Cement	26		26		L		1		1	26		26	10	2	12	10		10	6		- 6			- 0	<del>  </del>	421				
Dtj	/ Bulk	Pertüizer	T	14f	141		140	140	<u></u>	150	150	Ĺ	107	107		93	93		149	149		139	139		74	74	<b></b>	£04	104		- 1	208
	i	Other Dust and Metal			0	Γ	1	t		l	0	<u> </u>		. 0		53	53			0			0			0	<del>  </del>	37	37		208	998
		Total	1,406			1,281			892		1,042	1,708	107			148		1,658			1,684		1,823	1,264		1,338		141	868	789	209	572
	L D. H.	Petrolcum	7	385		13	437			517	517		631	631		724	724		780	1373		704	704		442	442		551	551		572 572	
Liqu	id Bulk	Total	7	385			437	450	O O	517	517	0	631	631	0	724	724	0	780	780	- 0	704	704	- 0	442	442		551 016		- 12(4)	1 036	572 2.797
	Grand To	lal	2,218	707	2,92	2,249	756	3,005	1,685	840	2,52	2,735	90-	3,639	3,486	1,156	4,642	2,800	1,281	4,081	3,016	1,141	4,157	2,602	1,105	3,707		936	2,781	1,761	1,030	2,797

Source: Port Said Port Authority
Note: Transshipped containers are excluded.

# 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
Total	8,941	2,693,887	2,843,657	936,549,299	100.00%	318.0	301.3	104,747.7

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

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

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
Total	8,417	3,168,603	2,848,582	1,156,806,695	100.00%	338.4	376.5	137,436.9

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
Total	391	130,177	104,362	39,258,587	100.00%	266.9	332.9	100,405.6

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

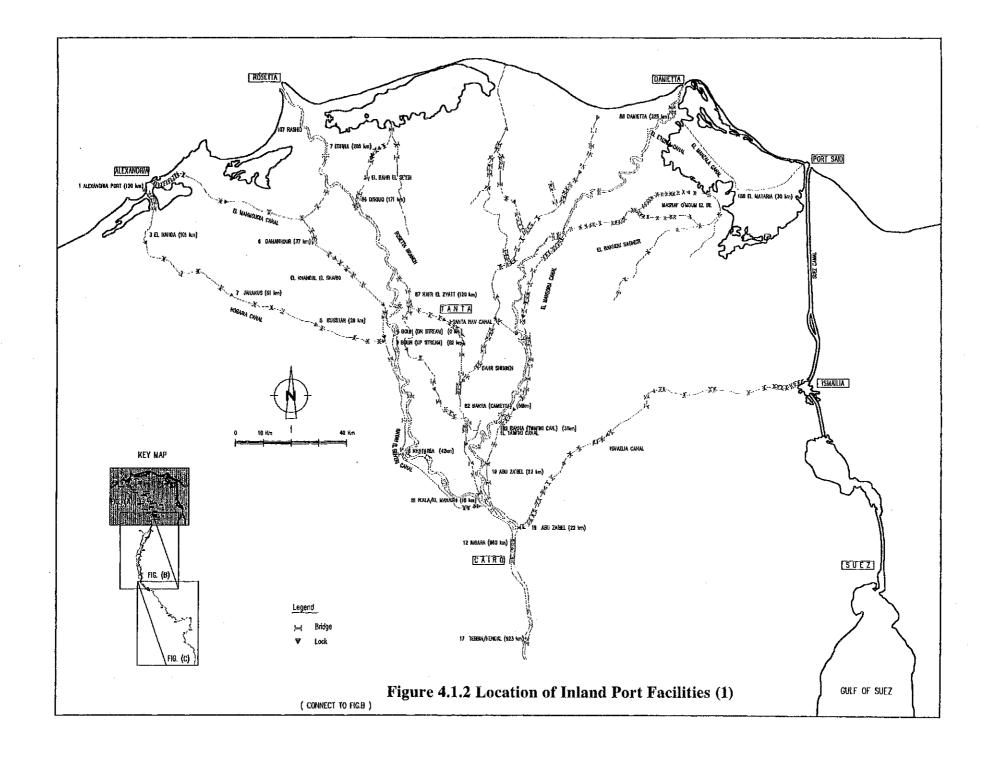
Products	No. of Barge	Transport Distance (km)	Volume (ton)	Ton Kms (ton km)	Ratio (%)	Ave. Volume (ton)	Ave. Transport Distance (km)	Ave. TonKms (ton km)
Petroleum Products	1,225	521,285	364,074	169,332,627	16.84%	297.2	425.5	138,230.7
Phosphate	432	337,779	323,811	253,208,640	14.98%	749.6	781.9	586,131.1
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
Total	6,533	2,768,659	2,161,427	1,028,892,458	100.00%	330.8	423.8	157,491.6

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	485.5	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

12,000 No./ '000 ton/ '000 km/ Mil. ton km 10,000 8,000 6,000 4,000 2,000 0 1995 1996 1997 1998 1999 2000 2001 Year □ Ton Kms □ No. of Barge ™ Travel Distance ■ Volume (Mil. ton km) ('000 ton) ('000 km) (No.)

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



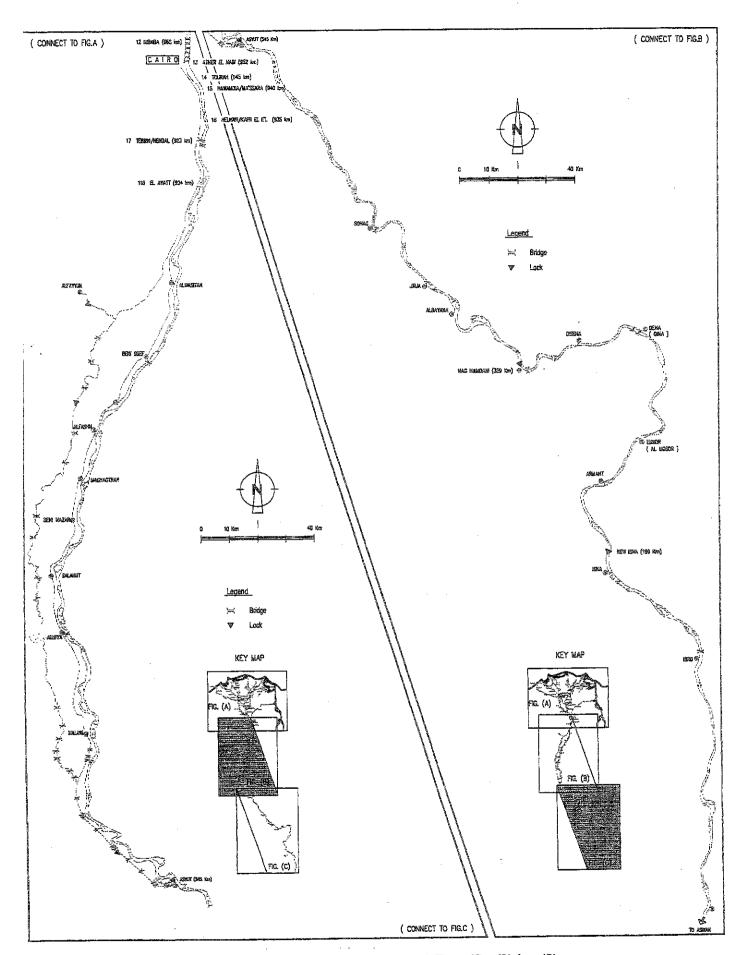


Figure 4.1.3 Location of Inland Port Facilities (2)

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

Unit: '000 MT

	Total	Cargo		From / To Ale	xandria Port	
Cargo Item	Total	cargo		Volume		CL
	Volume	Share	From Alex	To Alex	Total	Share
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%
Total	2,161,427	100.00%	186,422	247,532	433,954	20.08%

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

	Total C	argo		From / To Gra	eater Cairo	
Cargo Item	Total	argo		Volume		Chan
	Volume	Share	From Cairo	To Cairo	Total	Share
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%
Total	2,161,427	100.00%	370,593	1,283,982	1,654,575	76.55%

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

Unit: MT

Region	Upper/N Egy		Greater	Cairo	Lower	Cairo	Alexa	ndria	Tota	al
Upper/Middle Egypt	311,367	14.4%	1,206,754	55.8%	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%	50,040	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)

		Origin Ports										Upper/Mi	ddle Egyp	it			,				Unit: M
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 Hamnadi (344km)	Girga (407km)	Sohag (446km)	Asyout (546km)	Mankabad (556km)	Abu Qurgas (673km)	El Menia (700km)	Samalout (723km)
			Aswan (6km)	_	0		0	0	0	0	0	540	0		0	890	0	0	(	0	
		ľ	El Agaba (20km)	0		(				410	- 0	<del></del>					ก	<del></del>	<b></b>		
	li	Aswan	Kom Ombo (50km)	0	0		0		0	275				n	0	<u> </u>	0	<u>`</u>	:		
			Edfu (113km)	0	0	(	-	0	2,895	0	Č			210	0						
		l f	Sibaya (148km)	0			0		0	n				0		0					
			Armant (207km)	0		. (		·	<u>~</u>	ň	0	<del></del>		0	ň	Ō	0	<del></del>	0		
		İ	Luxor (222km)	0				<u> </u>	0	-	0		~	0	0		0	<u> </u>	0		
	Upper Egypt	h	Qus (257km)	0		.0						0			0	0	0	0			<del></del>
	-FF	Qena -	Qena (290km)	250	550	. 0					0		. 0	<u>v</u>	0		0	0	`		
		ŀ	Dishna (314km)	200	220		<del></del>			0				0	0	0	0				
		ŀ	Nag Hammadi (344km)	250	0	0						<del></del>			ก		<u>v</u>				
			Girga (407km)	250	0				<u>0</u>							0	0	0		+ ·· · · · ·	
Nile		Suhag	Sohag (446km)	ก	0				0	0		<u> </u>	- V	0				0	0		
			Asyout (546km)	12,279	0		47,055	0	8,959		12,588	21,228	28,449	20,678	0			0	0		
		Asyout	Mankabad (556km)	12,275				ŏ			12,500	0	<del>-</del>		0	0,000	200	- 0			
			Abu Qurgas (673km)	0	0		0	ŏ		0		- ŏ	· · · · · · · · · · · · · · · · · · ·	0		0	200	- 0		0	
	Middle Egypt	El Menia	El Menia (700km)	0	0	3,500	7,215	0		0	2,090			1,790	0	0	0		0		·
	"		Samalout (723km)	Ď	0	7,500	7,213	Ŏ	1,220		2,050	0	1,730	1,720		0		0		<del></del>	
			Tebbin (923km)	25,564	ាំ	S. S. To	26,765		1.900	22,051	10,236	31 045	21,512	6,436	6,500	6,335	1,150			h	- 19 av 31
		Cairo	Helwan/Kafr (935km)	Ô	o	ń	. 0	Ö		n n	0		7 6	- 1978 N	0	V 6	0				
		Giza	Hawamdia (940km)	0	n	ñ	1.330		The second second	7 0	550	Ŏ	540	2,540		ň	100		- 0		
	Greater Cairo		Tourah (945km)	7 6		~ °0		1934-7			0				0	ň	0		0		***
	l f	Cairo	Ather El Nabi (952km)	- 0	ិ ក	, i			war year in the control of	0				A new complete metal	o.		150				والمسات
	!	Giza	Imbaba (960km)	0	o o	0	0	0	ិ ព					0.1			, <u>, , , , , , , , , , , , , , , , , , </u>		0		
		Kalyoubia	Shoubra (967km)	1,430		ា ខេត្ត			300		0			شارات ندلين سنديث	20.00	n in	150				
5.1.		* 1	Nikla (6km)	0	0	0	25-1-25		()	0	0	*******	n	0	0	n	0		0		
Baheira	, [	Menoufia	Khatatba (42km)	0	0	0	_ ~		0	0	0		0	0	ő	0	0		0		
	Lower Egypt	77.1	Boulin (0km)	0	0	0			0	-	0		0	0	0	0	0	,	0		
		Behera	Busstan (28km)	0	0	0			0	0	0	0	0	0	0	0	- 0		0		
Noubaria			El Nahda (102km)	. 0	0	Ö	<u> </u>	0	0	0	0	0:	0	n	0	0	0		0	<u> </u>	
	Alexandria	Alexandria	El Metrass (118km)	0	0	. 0		0	0	0	. 0		0	0	0	0	0		0		
			Alexandria	0	0	0	20,436	0		0	0	n	n	10,599	n	0	0	<u> </u>			
				39,773	550	3,500		0	22,165	40,347	25,464	95.558	57,459	42,758	6,950	46,513	2,045		0	· · · · · ·	
		Total		1.8%	0.0%	-,	4.8%		,100		240, TOT	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~,,,,,,,	T-, ( J 0	V, ////	TU, J L J	4,0-0	TU.134	v	ı Ul	

(Continued)

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

Waterway   Ragion   Governorate   River/Sea Port   Fig.			Origin Ports				G	reater Ca	iro				Lower	Egypt			Alexandri	a		Unit: MT
Noubaria Range   Rangala (20km)	Waterway	Region		River/Sca Port	Tebbin (923km)	Helwan/Kafr (935km)	Hawamdia (940km)	Tourah (945km)	Ather El Nabi (952km)	Imbaba (960km)	Shoubra (967km)	Nikla (6km)	Khatatba (42km)	Boulin (Okm)	Busstan (28km)	El Nahda (102km)		Afexandria	Tot	al
Nile   Nile   Figure   Aswam   Kom Ombo (SOkm)   0   0   0   0   0   0   0   0   0				Aswan (6km)	40,495	C	0	0	0	0	15,734	0	0	0	ő	0	0	1,180	58,839	2.7%
Nile   Nile   Fig.   Aswan   Kon Ombo (60km)   0   0   0   0   0   0   0   0   0		1				. 0	0	()	0	0	0	()	0	0	0	0	. 0	0	38,670	1.8%
Part   Part			Aswan		0	C	- 0	0	0	0	()	0	0	0	0	0	o	. 0	1,160	0.1%
Nile   Upper Egypt   Upper E					0	C	53,718	0	380	0	0	0	0	0	0	0	0	987	65,813	3.0%
Nile   Viper Egypt   Viper E					0	()	0	0	0	. 0	294,632	0	0	0	0	0	0	- 0	323,811	15.0%
Nile   Page					0	C	50,785	0	. 0	0	0	0	0	0	0	0	0	19,646	70,431	3.3%
Nile   Nile   Part				Luxor (222km)	0	C	0	. 0	300	. 0	. 0	0	0	0	0	. 0	0	0	300	0.0%
Nile   Nile		Upper Egypt		Ous (257km)	0	C	65,931	-0	- 0		0	0	0	0	0	0	0	9,431	75,362	3.5%
Nile  Nag Hammadi (344km)  Suhag  Girga (407km)  O  O  O  O  O  O  O  O  O  O  O  O  O		1, 0,	Qena	Qena (290km)	0	. 0	0	0	. 0	0	150	0	0	0	. 0	0	0	0	1,175	0.1%
Nile      Nile			ĺ	Dishna (314km)	.0	. 0	25,259	0	0	. 0	0	0	0	0	0	0	0	7,906	33,165	1.5%
Nile   Suhag   Schag (446km)   0   0   0   0   0   0   0   0   0			ľ	Nag Hammadi (344km)	0	C	119,239	0	0	0	900	0	0	0	0	0	0	35,250	155,639	7.2%
Nile			5.1	Girga (407km)	0	C	29,271	0	. 0	0	0	0	0	0	0	0	0	8,714	37,985	1.8%
Asyout   Mankabad (556km)   0   0   0   0   0   0   0   0   0	Nile		Sunag	Sohag (446km)	0		: 0	- 0	0	0	0	0	0	0	0	0	0	0	0	0.0%
Makabad (Sokim)			A	Asyout (546km)	0	(	0	. 0		C	0				0	0	\$+-,		207,910	9.6%
Middle Egypt			Asyout	Mankabad (556km)	0		0	0	- 0	0				0	0	0			200	0.0%
Samalout (723km)				Abu Qurgas (673km)	0	(	0	0	0										0	0.0%
Cairo		Middle Egypt	El Menia	El Menia (700km)	<u> </u>	(	0	0		0	·									1.0%
Greater Cairo					445,125	(	0	0	64,835	0	0	0					<del></del>			23.6%
Greater Cairo   Giza   Hawamdia (940km)   0   0   0   0   0   0   0   0   0			Cairo	Tebbin (923km)			0	<del>.</del>	·			The second second			Security and arrange			h	253,999	11.8%
Feater Cairo   Cairo		ļ	Cano	Helwan/Kafr (935km)	0	-	0							market and the contract of		L			0	0.0%
Cairo			Giza		4		_	0	<u> </u>		<del>-</del>	diameter and the second	Additional Property of the last	divination of the later	the bearing of the second			<del></del>		3.8%
Main		Greater Cairo	Cairo		0		·							16,040						1.5%
Raheira   Houbaria   Houbaria   Alexandria					0			· · · · · · · · · · · · · · · · · · ·	<del></del>	0			وخدامه وسنتون بسرورها	0						0.0%
Baheira   Lower Egypt   Lower Egypt   Lower Egypt   Lower Egypt   Behera     Nikla (6km)   0   0   0   0   0   0   0   0   0					+				<u>-</u>								Attended to the second second			0.0%
Baheira   Lower Egypt   Menoufia   Khatatha (42km)   0   0   0   0   0   0   0   0   0			Kalyoubia		0								🕰 a paring grangel accessive interior							0.1%
Lower Egypt   Behera   Boulin (Okm)   O   O   O   O   O   O   O   O   O	Rahaira		Menoufie		0												<del></del>			0.0%
Noubaria   Alexandria   71,582   O 2,366   O 0 400 2,880 4,676 6,000 468   O 6,490 43,550 - 186,422   O 1,582   O 1,582   O 2,366   O 0 400 2,880 4,676 6,000 468   O 6,490 43,550 - 186,422   O 1,582   O	rancii d	Lower Fount	Indionid		<del></del>														0	0.0%
Noubaria   Noubaria   Busstan (28km)   0   0   0   0   0   0   0   0   0		Zower Egypt	Behera					ļ							<u>`</u>		<del></del>		0	0.0%
Alexandria Alexandria El Metrass (118km) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Donbia							·						<u> </u>				0.0%
Alexandria 71,582 0 2,366 0 0 400 2,880 4,676 6,000 468 0 6,490 43,550 - 186,422	Noubaria							····			-		WHEN PARTY OF THE	Anniel statements review				***************************************	0	0.0%
		Alexandria	Alexandria			(						**********		**************************************					0	0.0%
A STATE OF THE PROPERTY OF THE	,		<u> </u>	Alexandria		(														8.6%
			Total																2,161,427 100.0%	100.0%

Total ьfibnsxəlA El Metrasa (118km) ELNERGE (TOSKILI) Busstan (28km) Boulin (Okm) Khatatha (42km) (milda (blum) Shoubta (967km) Tourah (945km) (mil01-6) nibmewali Helwan/Kafi (m:/CE9) 0.0% Tebbin (923km) Samalous (723km) Table 4.1.10 O/D of Inland Waterway Traffic in 2000 (Petroleum) 0.0% El Menis (700km) Asyout (546km) Sohag (446km) 1.8% (mdf04) sgriD 20,678 28,449 Dishna (314fun) Qena (290km) 16.236 12,58R Qus (257km) 17,611 Luxor (222km) Armant (207km) 0.0% Sibaya (148km) (md&11) mba El Aqaba (20km) (mild) msweA | Account (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive (Oktor) | Extractive River/Sea Port Giza Kalyoubia Alexandria El Meoia Мелоціїя Asyout Suhag Total Qena Q Cairo Cairo Upper Egypt Alexandria Region

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Table 4.1.11 O/D of Inland Waterway Traffic in 2000 (Plusphate)

Unit: MT	Total	١		ļ		20.0	100.0%	80.0	20.0%				1			l	ļ		1	%U 0							İ							Ĺ	Ť	l
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Table 4.5.19 O/D of Inland Waterway Traffic in 2000 (Raw Aluminum)

0(3 eirbæx slA (mil811) 22555M 13 El Vahda (102km) Boulin (Okm) Khatatha (42km) (unja) rixin Shoubta (967lon) (шуоуа) сфефиј 園 iden 19 tədin (masse) Towah (945km) (mil0#8) eibmaweH Тербіл (923/гл.) Samulou (723ton) Table 4,1.20 O/D of Inland Waterway Traffic in 2000 (General Cargo) El Menia (700km) Abu Qurgas (673km) (muločč) badadneM (ms/845) twoysA Sohag (446km) (my704) sgai ірешшеН дем (шйнеў) (mXÞ1E) sadsiG (пој042) впоО (miT2S) 249 Curial (222) Amanı (207km) Sibaya (148km) (molett) uñba Korn Ombo (50km) (mil02) edepA IS (atske) newek Riven/Sea Port Giza Alexandria Aswan Asyunt Giza Total Suhag Cajio Oct I Upper Egypt Alexandria Region Nile

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Waterway Region	Governorate	Riven/Sea Port	(mid) mewa/	El Aqaba (20lon)	Kom Ombo (50km) Edfu	(mdE11) sysdic	(mil8+1) mentaA	(mayros) Luxor (molsss)	(DZZZkam) (mo/TZZ) auQ		antkiti (mžÞ18)	SeV ibermeH (mJAAC)	eguiD (md704)	SsrloZ (mdö44) WaysA	(md942) bedishneM	(mblèčč) srgmQ trdA	(ms/£78) sinsN: 13 (ms/607)	Holicans?	niddəT (mx£29)	Helwag/Kafr (m/2559)	пътеми (пътем (пътем)	foural (marche)	idaN (m3229) ededmi	(mxl08e) saduod2	(mJ(36) (mJ(3) rD(iV	ediciedă (mdSt)		material (milks)	(102km) El Nahda	(118km)	eirbaex=1A	Total	_
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Table 4.1.21 O/D of Inland Waterway Traffic in 2089 (from & Steel)

Unit: MT Total aithnaxəlA El Metrass (118km) El Mahda (102kgn) Bussian (28km) Houlin (Okm) Khatatba (42km) (mold) abliN Зроирга (967km) imbaba (960km) Ather El Nahi (m52km) (mi244) demoT (md049) sibmeweH 0,0% Деррів (923кш) 0.0% Sameloui (723km) Table 4.1.22 O/D of Inland Weterway Traffic in 2000 (Coke) El Menia (700km) Abu Qurgas (673km) Asyon (546km) Sohag (446km) (ms/70%) agrita ibammaH gaM (molt-h£) Dishna (314km) Qena (290km) (ms/725) auQ Luxor (222km) (mdf/02) mentrA Sibaya (148km) Edfu (113km) Kom Ombo (50km) (mol05) edspA 12 Aswam (Gkm) River/Sea Giza Katyoubia source: River Transport Authority (KI'A) El Menia Menoufia Suhag Asyou Qella Qella Cairo Gir Beliefit Total Upper Бgyµ Alexandriu diddle Baheira N

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	River	Asw.	El Aga	Kom Or	Edfu	Sibaya	Arman	Luxor	Qus	Gena	Dishn	Nag Hammadi (344km)	Girga	Sphag	Asyon	Market	Abu Qur	El Men	Santalo	Lebbii	Helwan/Kafr (935km)	Tawana .	Toura	Africa Cal Mabi (952km)	100	OTION	ž.	Khatut	HOU	Bussts	E Nahe	El Metra	Ale		
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Table 4.1.23 O/D of Inland Waterway Traffic in 2000 (Aluminum Products)

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Source: River	Transport Au	Source: River Thansport Authority (RTA)				į																												

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Table 4.1.25 O/D of Inland Waterway Traffic in 2000 (Foods Products)

### 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.

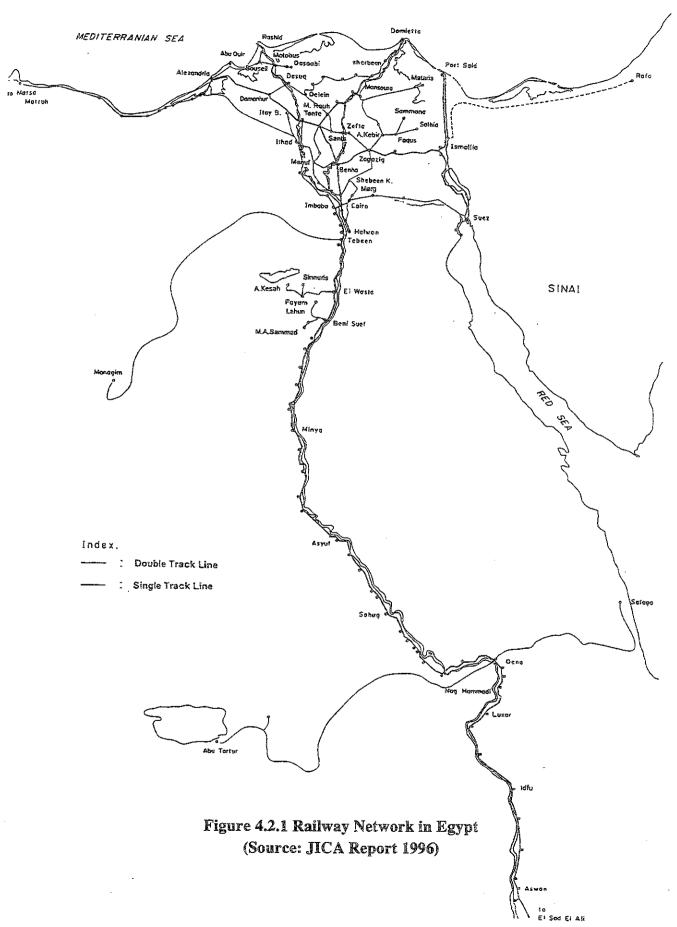


Table 4.2.1 Volume of Cargoes Transported by Railway in 2000

Unit: '000 MT

				\	Unit: '000 MT
C	argo Item	Volume (MT)	Share	Ton-Km	Average Distance (Km)
	Iron Ore	1,957	16.6%	685,805,323	350
	Coal	1,568	13.3%	418,326,538	267
26 6 4	Limestone	548	4.6%	147,526,175	269
Manufacture Materials	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
	Cereals (wheat)	1,573	13.3%	441,698,665	281
Agricultural	Sugar Cane	231	2.0%	11,779,500	51
Products	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
	Stone - Basalt	944	8.0%	93,994,500	100
Construction Materials	Gravel	189	1.6%	26,396,480	139
	Total	1,133	9.6%	120,390,980	106
	Steel Sheets	356	3.0%	48,590,213	136
<b>N</b> F 6 4	Fertilizers (Kema-Quos)	324	2.7%	126,236,137	389
Manufacture Products	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
	Empty Containers, Caravans	323	2.7%	75,743,550	234
Containers	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
Gr	and 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)

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1	O/D (Iron Ore)	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	To	tal
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1 C	4 Suez (Port)				L								L						<u> </u>											
	5 Damietta (Port)				L			<u> </u>												L							L		<u> </u>	
	6 Dakahlia				L							<u> </u>		<u></u>	i				<u></u>	<u> </u>							L	<u></u> _	L'	
	7 Sharkia			66			L	513	I																L		L		579	0.03%
	8 Kalyoubia			L																										
	9 Kafr-Bl-Sheikh																								1					
	10 Gharbia d												L		Ĺ															
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	23 Red Sea	1,955,083		T	I	T		T																					1,955,083	99.97%
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	25 Matrouh				1															L						L				
	26 North Sinai						<u> </u>							ļ											L				لـــــــا	L
1 [	27 South Sinai						L			1									<u> </u>			<u> </u>					<u> </u>		<u> </u>	
	Total	1,955,083 99.970%		66			<u></u>	513							<b></b>							L						O THE STREET	1,955,662	100.00%
LĹ	finisher of Transport	99.970%		0.003%				0.026%			I				i				1				L	L	1				100.0%	

Source: Ministry of Transport

Table 4,2,3 O/D Traffic by Railaw in 2000 (Coal)

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		D/D (Coal)	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	To.	al
		Cairo (Tebeen)						<u> </u>																					ļ <u>.</u>		
	2	Alexandria (Port)	1,512,838		I	8,465						L	L		- DEL WALLES															1,521,303	97.0%
		Port-Said (Port)							<u> </u>												TANK SERIATEN							MOI NACCOURAGE	<u> </u>		
	4	Suez (Port)	46,815																											46,815	3.0%
l	5	Damietta (Port)											L			1									N. Milana						
		Dakahlia																	<u> </u>		<u> </u>										
	7	Sharkia			Ĭ							I								<u> </u>											
	8	Kalyoubia	[		Ι							]																			
	9	Kafr-El-Sheikh			T			T		Ι																					
i	10	Charbia (Tanta)	1					T	T	1		I.	[																		
	11	Menoufia			1			T		1	- LAUGHE		1					l		i	F										.,
	12	Behera						1	1	1	- Carkamita	[	Ī														Ī			·	
	13	Ismailia			1					T			T																		
	14	Giza				1		1		T		Ī		1		Γ				Γ.											
Origin	15	Beni-Sucf			1		i		1	I'''''			Ι.	I																	
-	16	Fayoum Menia					1																								
	17	Menia			T			T	1	[		T																			
- 1	18	Asyout			T		i	1				Γ								[	I						1				
	19	Asyout Suhag Qena						1	1	T		1	T										80				]			1	
	20	Oena			I		ļ	T	T	1		Ī		Ī										[							A 0.2 122-0
	21	1Aswan			T	1			1				Ī	I																	
	22	Luxor			1		1			T T		Ι							1,020												
	23	Luxor Red Sea El-Wadi El-Gidid				T			I																						
	24	Et-Wadi El-Gidid		l	T	]	Ι														L										
	25	Matrowh			T	1			1			T						1		T											
	26	Matrouh North Sinai			1	1			1			1								I		I				-1 1107 1101				VIVIA VIII. VIII. VIII.	ALT FERDERING
	27	South Sinai				1		1	T		CHILD WATER		1							1	<u> </u>										
	THE SECOND		1,559,653		T	8,465									I								80				1			1,568,198	100.0%
		Total	99.5%	·	Ť	0.5%		T	1				1	i					,	1			0.0%							100.0%	

Source: Ministry of Transport

Table 4.2.4 O/D Traffic by Railway in 2000 (Petroleum )

$\Box$	_	D (Petroleum)								·····							Destina	tion													$\overline{}$
L	O,		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		Cairo (Petrol Hosh)	8,457			4,520		5,148		393		479				2,094			2,437		16,349	28,757	19,113				629			88,375	7.6%
l		Alexandria (Mousalet)	15,399	16,762		3,144		7,238	15,900				1,125		13,888	28,238	6,234		14,503			21,238	23,038		T		18,884			185,589	16.0%
l		Port-Said (Port)																													
l		Suez (El Suez)				6,055		81,141		119		7,233	20,308		600	63,956		3,733	112,861		71,198	154,372	140,675							662,251	57.0%
l		Damictta						40		<u></u>													L			l				40	0.0%
l	_ 6	Dakahlia					1,540	Ĺ															,							1,540	
l	_7_	Sharkia								3,960									19,990	56,460										80,410	6.9%
i		Kalyoubia																													
ŀ		Kafr-Bl-Sheikh																													
l '		Gharbia (Tanta)						5,379	2,497	1,493	1,415	1,061	2,750		640															15,234	1.3%
l		Menoufia																					440							440	0.0%
l		Behera																													
l	13	Ismailia				220																								220	
l		Giza														160										80				240	0.0%
Origin		Beni-Suef	118													40	139						40							337	0.0%
l	16	Fayoum																													
l	17	Menia											86		340	14,926		374			550		9,975			L				60,757	
		Asyout				L							2,334				442	764	8,051		26,565	2,717	19,755							60,628	5.2%
	19	Suhag															L														
1	20	Qena																					120							120	0.0%
1		Aswan																		240					<u> </u>					240	0.0%
l	22	Luxor																													
[		Red Sca																													
Į.		El-Wadi El-Gidid		l																											
1		Matrouh		2,520		1,203		1,195											200			384				L				5,502	0.5%
ŀ		North Sinal																					$\Box$			L					
l	27	South Sinai													L																
l	1	Total	23,974	19,282		15,141	1,540	100,142 8.6%	18,397	5,965	1,415	8,773	26,603	L	15,468				158,042	56,700	114,662		213,156			80	19,513			1,161,923	100.0%
L	<u></u>	istry of Transport	2.1%:	1.7%		1.3%	0.1%	8.6%	1.6%	0.5%	0.1%	0.8%	2.3%		1.3%	9.4%	1.5%	0.4%	13.6%	4.9%	9.9%	19.9%	18,3%		L	0.0%	1.7%	Ĺ		100.0%	

Source: Ministry of Transport

Table 4.2,5 O/D Traffic by Railaw in 2000 (Basalt)

r																	Destina	tion													
l	(	O/D (Basalt)	1	2	1	4	1 5	6	7	R	q	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Tota	<del></del>
	11	Cairo	1,175			<del></del>		<u>-</u> -	<del>                                     </del>	<del> </del>							1.0	10		10	17	20	-2.1	22	2.7	27	23				0.1%
		Alexandria (Abu Qeer																													- 417,5
		Port-Said																							·						
	4	Suez (Port)																													
	5	Damietta																													
		Dakahlia					800	800	760	·		880							400						$\overline{}$					3,640	0.4%
	7	Sharkia	41,960	18.840	1.920	7,720	15.640	102,050			55,720	48.765	*****	26,120	38,720	22,080	9.720	1,960	76,140	6,200	4,520	6,200	1,600		560					811,455	86.1%
	8	Kalyoubia	900							720		280	160			1	- 1	- /												2,060	0.2%
		Kafr-El-Sheikh									5.690									****					i					5,690	0.6%
		Gharbia d		6.800							11,780	3.510	12,460	800		520	·		2.560			520			·····		16,480			55,430	5.9%
	11	Menoufia																													
		Behera																													
		Ismailia			2,200	800									400															3,400	0.4%
	14	Giza	,																												
Origin	n 15	Beni-Suef								1,560							1.140		600									-		3,300	0.4%
	16	Fayoum											-				.,														
	17	Menia								1,560				·					4,890	5,560			840							12,850	1.4%
	18	Asyout															840													840	0.1%
	19	Suhag Qena																													
	20	Qena																													
		Aswan																													
	22	Luxor																													
	23	Red Sea								1																,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		El-Wadi Bt-Gidid	24,400	3,760			2,400			2,120						10,320														43,000	4.6%
		Matrouh																													
		North Sinai																													
	2.7	South Sinai																													
		Total	68,435	29,400	4,120	8,520	18,840	102,850	93,320	80,900	73,190	53,435	######	26,920	39,120	32,920			84,590			6,720			560		16,480			942,840	100.0%
	<u>ii</u>		7.3%	3.1%	0.4%	0.9%	2.0%	10.9%	9.9%	8.6%	7.8%	5.7%	18.0%	2.9%	4.1%	3.5%	1.2%	0.2%	9.0%	1.2%	0.5%	0.7%	0.3%		0.1%		1.7%			100.0%	

Source: Ministry of Transport

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

	O/D (0) - 1 (0)														D	estinatio	n													
	O/D (Steel Sheets)	1	2	3	4	5	6	7	8	9	10	[]	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Tot	
and the same districts	1 Cairo (Tebeen)	970					190		190		52,160		150	15,500	240			32,120			720				100				102,340	
1	2 Alexandria (Port)											L						150											150	0.0%
	3 Port-Said (Port)																						<u> </u>	[						
1	4 Suez (Port)																	نــــــا	L											
1	5 Damietta (Port)					-0.000 A												ļ į		<u> </u>	<u> </u>		<u> </u>				<u> </u>			
i	6 Dakahlia	60	70								40									. Marchandre			- De Stroman	0.16500-27060	a service when the			~_~~~~~	170	0.0%
1	7 Sharkia			}												***************************************				160		238				-			398	0.1%
	8 Kalyoubia										1,250													<u> </u>					1,250	0.4%
1	9 Kafr-El-Sheikh							<u></u>			- TOPO TOPO TOPO		All Control											<u> </u>			<u> </u>			
1	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			<b></b>	300				196,820	55.2%
1	11 Menoufia								ļ																					
1	12 Behera	<u></u>																							-					
	13 Ismaitia			. حمر سحيحسا			1				C.T.M. COT		,	570						L	<u> </u>	L					<u> </u>		570	0.2%
ł	14 Giza			<u> </u>			1												L						L					
Origin	15 Reni-Sucf			<u> </u>												40								L	ļ				40	0.0%
1	16 Fayoum			<u> </u>		ablado (men la dos ades)						L							ļ							<u></u>				
1	17 Menia		L	<u> </u>	<u> </u>									800				12,595	4,300										17,745	5.0%
	18 Asyout	40				***************************************		ļ							-			1,840		870							L		2,790	0.8%
1	19 Suhag	140													-			270		270			ļ		ļ		<u> </u>		1,200	0.3%
ì	20 Qena	50		L	1,295		-		CHIMPHEN PARTY		410			8,250				21,240				1,500			50				32,795	9.2%
1	21 Aswan			<u> </u>				<u> </u>				<u> </u>												-	Manager Co. Co.					
	22 Luxor						<u> </u>																							
1	23 Red Sea																	ļ	ļ					ļ	<u> </u>					
!	24 El-Wadi El-Gidid			<u> </u>			-			<u></u>	<u> </u>	ļ						<u> </u>	ļ	ļ			ļ	<b>!</b> _	ļ		ļ,			
1	25 Matrouh							L													<u> </u>			<u> </u>	<b> </b>					
	26 North Sinai		ļ	<b></b>	L		L	L							****		-	L	L	<u> </u>	<u> </u>		<del>  </del>				ļ			
1	27 South Sinai	Ļ		ļ				ļ <u></u>	Ļ											بجيو ميب	1						ļ <u>-</u>	l		THE PERSON NAMED IN
i	Total		5,400		7,045		17,940	34,190	27,020	14,810	75,720	41,330	16,050	25,970	1,990	40	·	68,665	4,870	1,700		1,738	ļ		450		<u> </u>		356,268	100.0%
L	1	2.8%	1.5%	1	2.0%	0.2%	5.0%	9.6%	7.6%	4.2%	1 21.3%	11.6%	4.5%	7.3%	0.6%	0.0%		19.3%	1.4%	0.5%	0.3%	0.5%	<u> </u>	<u> </u>	0.1%				100,0%	

Source: Ministry of Transport

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

(2/12/17/17/17/17/17/17/17/17/17/17/17/17/17/	Destination Co. Co. Co. Co. Co. Co. Co. Co. Co. Co.																												
O/D (Fertilizer)	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	To	tal
1 Cairo	(maraner verseare		<u> </u>		ļ						<u></u>			<u> </u>					L					<u> </u>					<u> </u>
<ol> <li>Alexandria (Abu Qeer )</li> </ol>		L	<u> </u>	6,154	######			480		<u> </u>	224				2,240		3,200	5,728	43,200	8,864		L		The second secon		***************************************		210,741	64,989
3 Port-Said			<u> </u>	L			<u> </u>							<u> </u>						<u></u>									
4 Suez (Port)		<u></u>	<u> </u>	<u> </u>			<u></u>				<u> </u>			L		***			ļ		~~	VV-E-HEAVIER-						·····	
5 Damietta		1	ļ	<u> </u>							<u> </u>															ļ			<b>!</b>
6 Dakahlia		<u> </u>	<u> </u>	6,240				480						<u> </u>	280		4,440	680	14,600									26,720	8.249
7 Sharkia 8 Kalyoubia		<u></u>	<u></u>	Į	<u> </u>	<u> </u>	L						·····						<u> </u>										ļ
8 Kalyoubia		enternativis.		<u> </u>		<u> </u>					ļ	L		ļ													L		<b></b>
9 Kofr-El-Sheikh									**			-	-	L															ļ
10 Gharbia	CAMPAGE PARTIES	1	<u> </u>		<u> </u>					-			THE PERSONAL PROPERTY.					L							L				<u> </u>
11 Menoufia			<u></u>	<u> </u>										<b> </b> _															
12 Behera					<u> </u>						ļ				PROTECTION NO.					****		AUT: 27 (18 A) 23 (				<b></b>			ļ
13 Ismailia			<u> </u>	<u> </u>										<u> </u>					<u> </u>							L			
14 Giza							<u> </u>												-	***********									
Origin 15 Beni-Suef						<u> </u>																	L			L			ļ
16 Fayoum				<u> </u>						<u> </u>								L	L						L				ļ
17 Menia			L	LONG BOOK			ļ	<u> </u>							-						ORDINATOR CHICAGO	CONTRACTOR OF THE PARTY				<u></u>			
18 Asyout 19 Suhag			<u> </u>	<u> </u>			<u> </u>				<u></u>			· ·		-													
19 Suhag					1				,					<u></u>					<b></b>										
20 Qena					L							1385 <del>-1</del> 977-117		TOP THE BUILDING	re-construction			-		1,390					[			1,390	0.49
21 Aswan 22 Luxor 23 Red Sea	-	<u> </u>	<u> </u>	<u> </u>							1,350				50		10,100	18,030	38,700	12,850	4,400				L	<u> </u>		85,480	26.4
22 Luxor		L		·		<u> </u>	<u> </u>			\$45.000 \$40.000				ļ					<u> </u>						Ļ				
23 Red Sea		<u> </u>					L	<u> </u>				- 16.00.00 P-07W-			Karaman mana									******					İ
24 IRLWadi RLCidid			<u></u>					1		<u></u>								ļ							L				
25 Matrouh		ļ					ļ	L		<u> </u>		. Nichal constitute and						ļ	ļ										
25 Matrouh 26 North Sinai		L	<u> </u>			1	<u> </u>				ļ <u> </u>							<u> </u>						<u> </u>					<b></b>
27 South Sinai		L				ļ	1	-	11-27-11-10-11-1	<u> </u>		L							L				ļ	L	L	L	<u> </u>		L
Total		1		12,394	######		<u> </u>	960		L	1,574				2,570		17,740	24,438	96,500	23,104	4,400				L	L		324,331	100.09
Total		1		3.8%	43.4%	1	1 .	0.3%			0.5%			1	0.8%		5.5%	7.5%	29.8%	7.1%	1.4%		1			I	į	100.0%	1

Source: Ministry of Transport

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

	O/	D (Cereals)															Destinat														
			_	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	To	etal
		Cairo			1	L					I																			[	
	2	Alexandria (Port)								1		24,531					13,219		11,768	14,427				T						63,944	4.15
		Port-Said (Port)								98,412		8,415				57,183		8,479	11,142	3,355	2,805	1,416								191,207	12.29
		Suez			1																										
	. 5	Damietta (Port)					I	T		#######		######				######	36,305	17,605	30,430	8,530	45,735	30,145								#######	73.19
		Dakahlia						T		T	I	I												Γ							
		Sharkia						1		1																					
	8	Kalyoubia (Shubra)				T				Т"											14,134	2,840								16,974	1.15
	9	Kafr-El-Sheikh							T		T				r									1	1						$\overline{}$
		Gharbia (Tanta)					Τ																,								
		Menoufia														1															
	12	Behera					1	$\Box$	Т			Г																			
		Ismailia				T		Т		T		T																			
	14	Giza (Embaba)					1	Τ	Ţ	Т																					
Origin	15	Beni-Suef												<b></b>																	
-	16	Fayoun					$\overline{}$	$\top$		1		1	1																		
	17	Menia				T	T -	<b>—</b>			1																				
ľ	18	Asyout					T	1		1						1			1					<del>                                     </del>	<del> </del>						
	19	Suhag					1	1		1												1.431								1,431	0.19
	20	Оспа										1				i									i						
	21	Aswan			T																				<u> </u>						
	22	Laxor										1																			
	23	Red Sea (Safaga)				1				10,317						7,787	11.630	19.571	13.080	43.056	18.077	25,792		·	····					149,311	9.59
	24	El-Wadi El-Gidid			l	1		1	T	1	T			1		1,1,4,		/	1	I				1							
	25	Matrouh					1	1		1				1		T															
		North Sinai			T	1	1	1		1	İ					<del> </del>									<del></del>						$\overline{}$
		South Sinai						1	1					<u> </u>		1															
		Tota!			T	T	1	1	1	######		ниннин				######	61,154	45.655	66,420	69.368	80.752	61,623								########	100.05
- 1		TOUT	$\neg \neg$		<b>1</b>	<u> </u>	1	1	1	42.1%		10.7%							4.2%											100.0%	

#### 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.

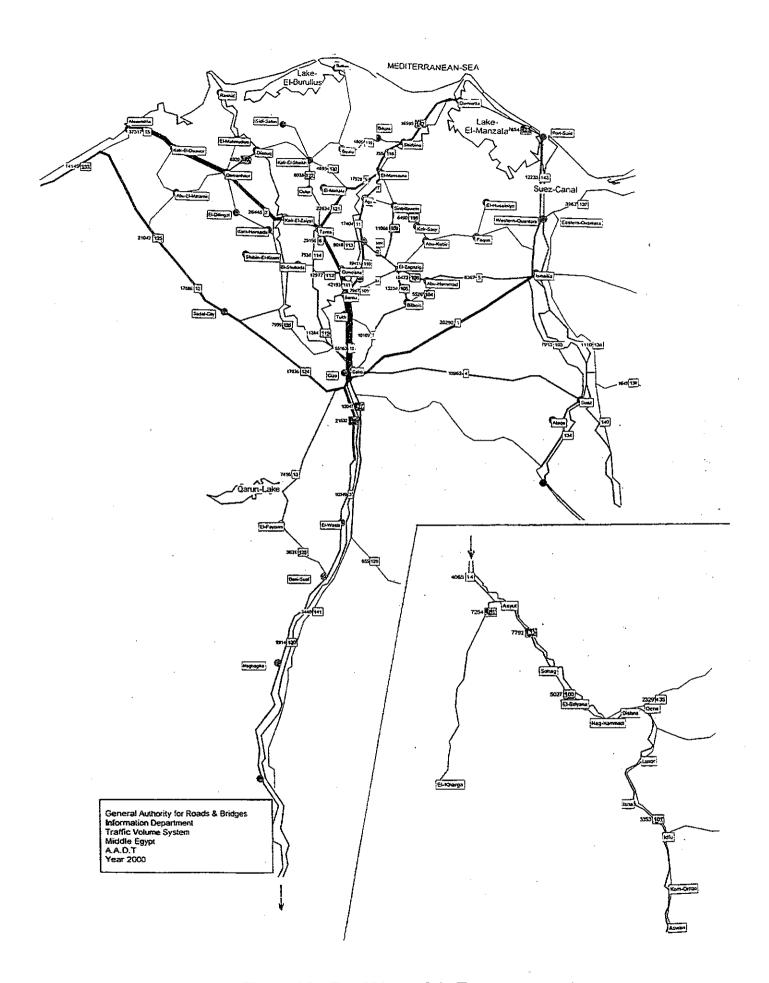


Figure 4.3.1 Road Network in Egypt

Table 4.3.1 Annual Average Daily Traffic by Road in 2000

	Station No.	Location (From)	Location (To)	Annual Traffic	Ratio	Rank
	1	Cairo	Ismailia	20,290	2.83%	9
i i	2	Damanhour	Tanta	26,448	3.69%	4
<u> </u>	3	Giza	Beni Suef	10,349	1.44%	27
<u></u>	4	Cairo	Suez	10,962	1.53%	25
uo	5	Ismailia	Abu Hammad	8,367	1.17%	33
Permanent Station	6	Tanta	Quweisna	25,156	3.51%	5
. S	7	Bilbeis	Abu Zaabal	10,109	1.41%	29
- in	9	Talkha	El Mahalla El Kubra	17,528	2.44%	12
an -		Cairo	Banha	55,163	7.69%	
	10		Mit Ghamr	17,404	2.43%	13
- 2a  -	11	Mansoura			2.49%	11
-	12	Cairo	Alexandria	17,886		
L	13	Giza	Al Faiyum	7,416	1.03%	41
Ļ	14	El Minya	Assute	4,065	0.57%	49
	15	Alexandria	Damanhour	37,317	5.20%	3
L	100	Schag	Nag Hammadi	5,027	0.70%	46
	101	Isna	Idfu	3,353	0.47%	54
L	102	Zagazig	Mit Ghamr	8,782	1.22%	32
L	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
F	110	Kafr Shukr	Mit Ghamr	19,411	2.71%	10
F	111	Quweisna	Benha	42,193	5.88%	
F	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
<u> </u>	115	Sinbillawein	Kafr Sagr	6,490	0.90%	44
F	117		El Mansoura	17,045	2.38%	14
<u> </u>		Aga		16,755	2.33%	16
<u> </u>	118	Talkha	Sherbin			48
Temporary Station	119	Bilgas	Biyala	4,805	0.67%	47
St	120	Kafr El Sheikh	El Mahalla El Kubra	4,895	0.68%	
, <u>7</u> ,	121	Tanta	El Mahalla El Kubra	22,634	3.15%	6
ora	122	Tanta	Kafr El Sheikh	6,938	0.97%	43
d .	123	Disouq	Damanhour	8,329	1.15%	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
Γ	127	Helwan	El Saff	12,047	1.68%	22
ſ	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
f	132	Assute	Sohag	7,792	1.09%	40
-	133	El Agamy	Marsa Matrouh	14,145	1.97%	18
ŀ	134	El Qattameya	Ras Zafarana	10,297	1.43%	28
}	135	Qena 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
-		<del></del>		1,110	0.35%	57
-	138	Tunnel	El Qantara	·	0.13%	
-	139	Tunnel	Nuweiba	1,649		
	140	Tunnel	Sant Katrin	3,558	0.50%	52
ļ	141	Beni Suef	Kuraimat	3,448	0.48%	53
1	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