

### Introduction

Since oil, gas, and petrochemical industries play a vital role in Iran's economy, the data on them are presented in an exclusive chapter. The Iranian oil industry came to existence by the exploitation of gas and oil from the first oil well in Masjed Soleyman (south-western Iran) in the year 1287 (1908) on which data are available. After the nationalization of the oil industry in the Month of Esfand of the year 1329, the National Iranian Oil Company (NIOC) managed to release some more data. The data furnished by the NIOC for the year 1334 were reflected in the first statistical yearbook of Iran.

Also, the National Iranian Gas Company (NIGC), established in the year 1344, and the National Iranian Liquefied Gas Company (NILGC), established in the year 1366, have been regularly releasing data on liquefied natural gas (LNG) and liquefied petroleum gas (LPG), respectively.

The start of the first fertilizer plant in the year 1342 was an introduction to the establishment of the National Petrochemical Company in the year 1343. Because of the abundant resources of oil and gas available in the country, the high value-added of the industry, and some other factors, the production of chemicals and petrochemicals has received great attention.

The statistics appearing in this chapter are currently provided by the Deputy for Planning of the ministry of oil.

It is worth mentioning, in addition to the statistics in this chapter, some statistics about oil and gas appeared in Chapter 24 (International Statistics) which is provided by the Organization of the Petroleum Exporting Countries (OPEC)<sup>1</sup>.

#### Definitions and concepts

**Crude oil:** is a complicated mixture of hydrocarbons that are extracted from natural underground reservoirs in some regions in the world. Crude petroleum mainly consists of saturated and unsaturated aliphatic hydrocarbons and some aromatic materials. In addition to hydrogen and carbon that are the main constituents of oil, it also contains nitrogen, oxygen, sulphur, and metals such as nickel, sodium, vanadium and iron as well. As a result of

the changes in the amount of these elements, the physical and chemical properties of crude oil is very variant.

**Kerosene:** is part of crude oil consisting of paraffin, petroleum and aromatic hydrocarbons, this product is used as heating and thermal power generation fuel and is one of the main constituents of jet fuel.

**Fuel oil:** is a residual substance obtained from the distillation of crude oil in refineries. Because of its heavy hydrocarbon content, this product does not burn easily. It is one of the main fuels for ships and large manufacturing establishments including power generation plants.

**Gas oil:** is a product obtained from the separation of kerosene from crude petroleum, this product is used as fuel for agricultural and industrial machinery and public transport vehicles and for thermal installations.

**Motor spirit:** is a mixture of isomerized and circular hydrocarbons with different concentrations, to which certain organic compounds are added for easy burning.

**Jet fuel:** is used as engine fuel for fighter and passenger aircraft. It is produced in different types in terms of a mixture of high quality burning oil and other light oil products (Naphtha) with some additives to prevent rusting, reduce the risk of icing, etc. In international standards, it is known as JP4<sup>2</sup> and ATK<sup>3</sup>.

**Enriched gas (Natural gas):** refers to the gas obtained from oil and gas reservoirs, available as associated gas or cap gas (such as gas extracted from Aghajari gas field), non-associated gas (such as Sarakhs and Sarkhun gas).

**Sweet gas:** enriched (natural) gas is turned into sweet gas after separation and refinement. The separation means the separation of liquids and gaseous impurities from enriched gas.

**Liquefied gas:** is a mixture of normal butane and propane, the proportion of which changes under environmental conditions and utilization and becomes liquid under a pressure of about 100-110 pounds per square inch.

**Gas injection:** is gas and/or water injected into oil reservoir for optimum utilization and preservation of resources.

1) Organization of petroleum exporting countries.

2. Jet propellant.

3. Aviation turbine kerosene.

**Gas customer:** is the natural or legal person whose characteristics have been registered and who has been given a customer number after his/her submission of required documents and payment of related costs based on a formal procedure for admission of the natural gas applicant.

**Gas consumer:** is the customers whose gas connection is made after passing the stages of the subscription.

**Gas extension:** refers to the lines which have been extended from transmission, feeding and network lines into the customer's private station.

**Polymer:** refers to heavy molecules with high carbon made out of molecules with low carbon in compositions of unsaturated paraffin hydrocarbons. Types of the polymer include:

(a) Major: polyethylenes, PVC, polypropylene, polystyrene, melamine crystal, polyesters, PET, and ABS.

(b) Engineering: polycarbonate and epoxy.

(c) Rubbers: styrene-butadiene and polybutadiene, rubber.

#### **Chemicals**

(a) Basics include ethylene, propylene, methanol, butadiene, C4 cut, butene-1.

(b) Intermediates include ethylene oxide, ethylene glycols, acetic acid, vinyl acetate, EDC, VCM, ethanol amine, 2-ethyl-hexanol and butanols.

#### **Fertilizers, pesticides and related materials**

(a) Fertilizers include urea, ammonium nitrate, diammonium phosphate, ammonium sulphate.

(b) Pesticides include alachlor, butachlor.

(c) Related materials include ammonia, nitric acid, phosphoric acid, sulphuric acid, sulphur, chloroacetyl chloride.

(d) Minerals include light and dense sodium carbonate, sodium bicarbonate, argon, perchlorin, hydrochloric acid, chlorine (liquid), caustic soda, sodium hypochlorite, ammonium nitrate (explosive).

**Aromatics:** are unsaturated cyclic hydrocarbons consisting of one or more benzene rings (a six-carbon ring with three double bonds). Aromatics include benzene, toluene, mixed xylenes, p-xylene, o-xylene, ethyl benzene, monomer styrene and PTA.

**Fuel:** includes propane, butane, pentane plus, pentane, pyrolysis gasoline, C4 raffinate, C6 raffinate, C.F.O, and MTBE.

#### **Selected information**

In the year 1397, a total of 763580 thousand barrels of crude oil were exported, which shows a 13% increase compared to the preceding year.

In the year 1397, a number of 1171 cities and 28819 villages were supplied with piped gas, and 50 cities and 4174 villages were being supplied with piped gas.

The total production of the National Company of the Petrochemical Industries with a 0.5% decrease stood at 53350 thousand tons in the year 1397 compared to the preceding year (the year 1396).

Out of this amount, 8506 thousand tons valued at 368360 billion rials are related to the domestic sale which increased by 1.8 and 77.4 percent, respectively compared to the previous year. Also, 20307 thousand tons valued at 11431 million dollars has been exported, which decreased by 9.4 and 4.3 percent, respectively compared to the previous year.

**7.1. REFINEMENT CAPACITY FOR CRUDE OIL IN DOMESTIC REFINERIES (1000 barrels)**

Refinery	Year							
	1380 <sup>(1)</sup>	1385 <sup>(1)</sup>	1390 <sup>(1)</sup>	1393 <sup>(1)</sup>	1394 <sup>(1)</sup>	1395 <sup>(1,2)</sup>	1396 <sup>(1)</sup>	1397
<b>Total.....</b>	<b>556260</b>	<b>556260</b>	<b>623055</b>	<b>623055</b>	<b>623055</b>	<b>677832</b>	<b>675980</b>	<b>763580</b>
Abadan .....	142350	142350	142350	142350	142350	142740	142350	142350
Arak.....	63875	63875	91250	91250	91250	91500	91250	91250
Esfahan.....	103660	103660	103660	103660	103660	103944	103660	103660
Bandar Abbas.....	84680	84680	116800	116800	116800	117120	116800	116800
Tabriz .....	40150	40150	40150	40150	40150	40260	40150	40150
Tehran .....	82125	82125	82125	82125	82125	91500	91250	91250
Shiraz .....	20440	20440	20440	20440	20440	20496	20440	20440
Kermanshah .....	8030	8030	8030	8030	8030	8052	8030	8030
Lavan (distillation complex) ....	10950	10950	18250	18250	18250	18300	18250	18250
Gas condensate of Persian Gulf Star	×	×	×	×	×	43920	43800	131400

1. Revised figures.

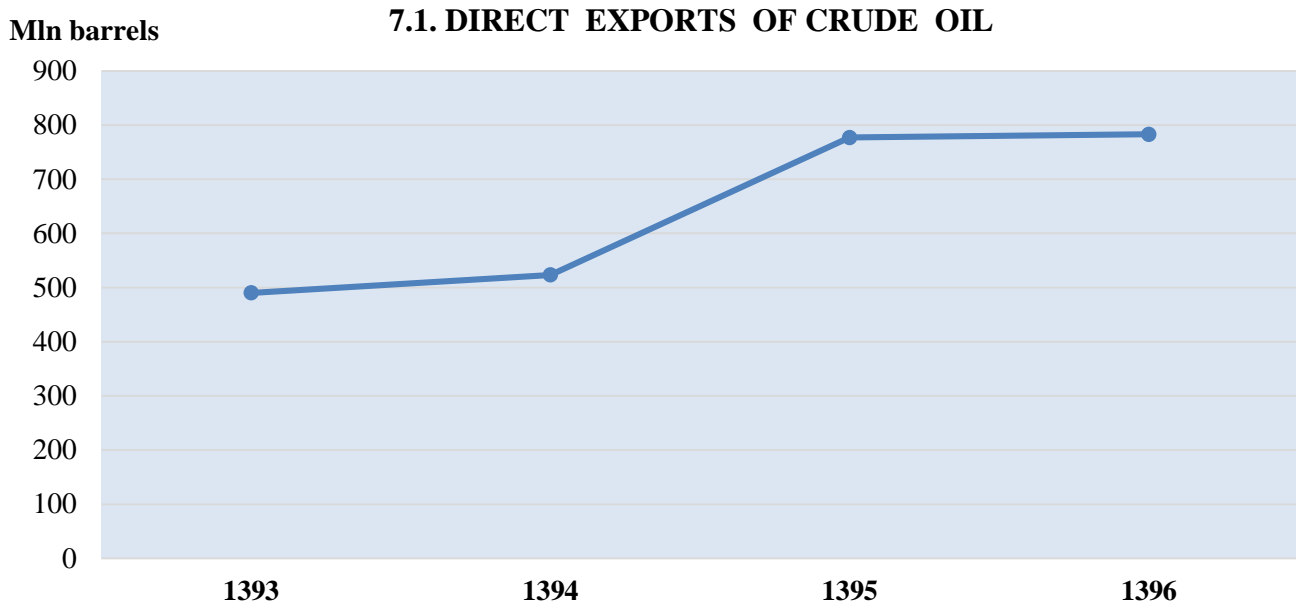
2. The year 1395 was a leap year.

Source: Ministry of Oil.

**7.2. DIRECT EXPORT OF CRUDE OIL AND OIL PRODUCTS**

Description	Year							
	1380	1385	1390	1393	1394	1395	1396	1397
Crude oil (1000 barrels).....	730000	887881	741939	490086	523392	777714	782880	000
Oil products (mln lit/day) .....	42	42	14	19	28	23	41	000

Source: Ministry of Oil.



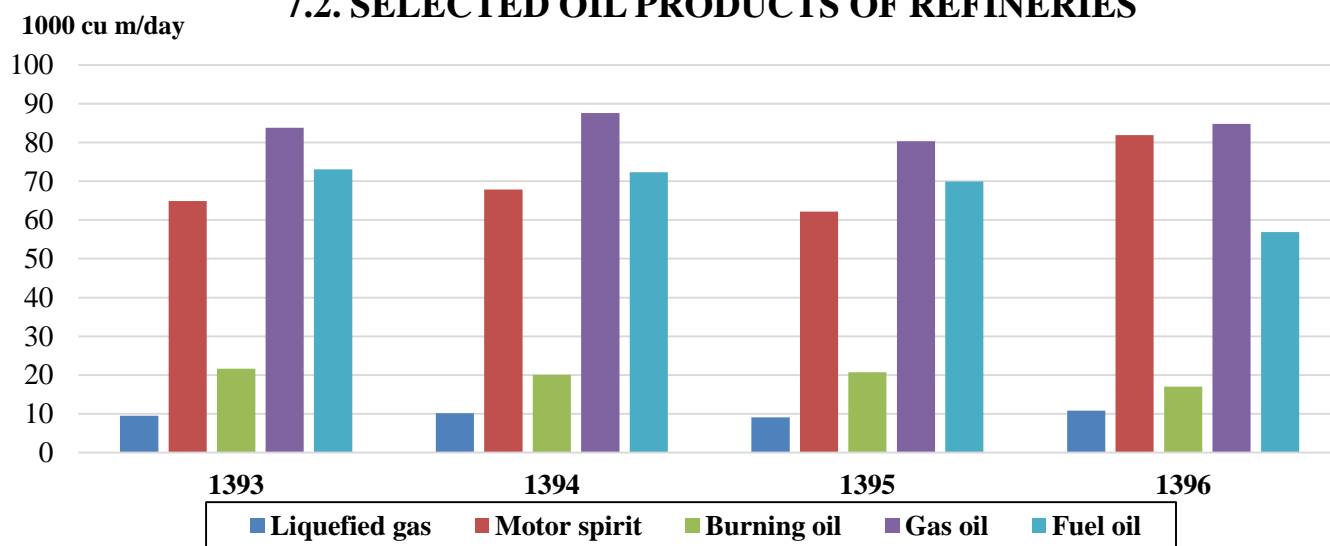
For data see Table 7.2.

**7.3. AVERAGE PRODUCTION OF DIFFERENT TYPES OF OIL PRODUCTS IN REFINERIES**  
(cu m/day)

Product	Year							
	1380	1385	1390	1393	1394	1395	1396	1397
<b>Total</b> .....	<b>245891<sup>(1)</sup></b>	<b>257313<sup>(1)</sup></b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
Liquefied gas.....	8298	8016	9476	10135	9068	10774	000	9476
Motor spirit .....	37128 <sup>(1)</sup>	44664 <sup>(1)</sup>	64888	67872	62177	81911	000	64888
Kerosene.....	27160	21048	21640	20061	20710	17035	000	21640
Gas oil .....	70879	80473	83857	87606	80339	84795	000	83857
Fuel oil .....	80152	76205	73045	72302	69942	56853	000	73045
Jet fuels .....	3098	3600	000	000	000	000	000	000
Lubricants.....	1221	0	000	000	000	000	000	000
Bitumen.....	8284	859	000	000	000	000	000	000
Other products <sup>(2)</sup> .....	10382	24107	000	000	000	000	000	000

1. Motor spirit includes basic gasoline, MTBE, super gasoline consumption etc; however, MTBE and super gasoline consumption are not included in the total.  
 2. Other oil products exclude semi-finished products, gas, hydrogen and sulfur.  
 Sources: Ministry of Oil.

**7.2. SELECTED OIL PRODUCTS OF REFINERIES**



For data see Table 7.3.

**7.4. CONSUMPTION OF OIL PRODUCTS****(1000 cu m)**

Product	Year							
	1380	1385	1390	1393	1394	1395	1396	1397
Motor spirit <sup>(1)</sup> .....	16723	26887	20884	25135	26856	25762	34317	000
Jet fuel G.P.4.....	157	99	000	000	000	000	000	000
Jet fuel A. T. K.....	943	1155	000	000	000	000	000	000
Kerosene.....	8954	7199	7257	7899	7322	7559	6218	000
Gas oil .....	25215	31471	29427	30683	31794	28131	29102	000
Fuel oil .....	15245	15644	19909	21920	18939	19747	9593	000
Lubricants .....	390	000	000	000	000	000	000	000
Bitumen .....	2100	4202 <sup>(2)</sup>	000	000	000	000	000	000
Liquefied gas .....	4163	3922	2739	1880	1447	1839	2079	000
Crude lubricants .....	351	1668	000	000	000	000	000	000
Benzinc solvents .....	12	42	000	000	000	000	000	000
Naphtha .....	2	42	000	000	000	000	000	000

1. Including regular, super, and unleaded gasoline.

2. Unit of measurement is regarded as thousand tons and includes VB (primary material of bitumen) as well.

Sources: Ministry of Oil.

**7.5. IMPORTS OF OIL PRODUCTS BY TYPE****(mln/litre)**

Product	Year							
	1380	1385	1390	1393	1394	1395	1396	1397
<b>Total</b> .....	<b>2840</b>	<b>11897</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
Motor spirit .....	2840	10038	000	1451	2082	3067	4419	000
Kerosene.....	0	0	0	0	0	0	0	000
Gas oil .....	0	1858	000	122	0	0	0	000
Aviation spirit .....	0	2	000	000	000	000	000	000

Sources: Ministry of Oil.

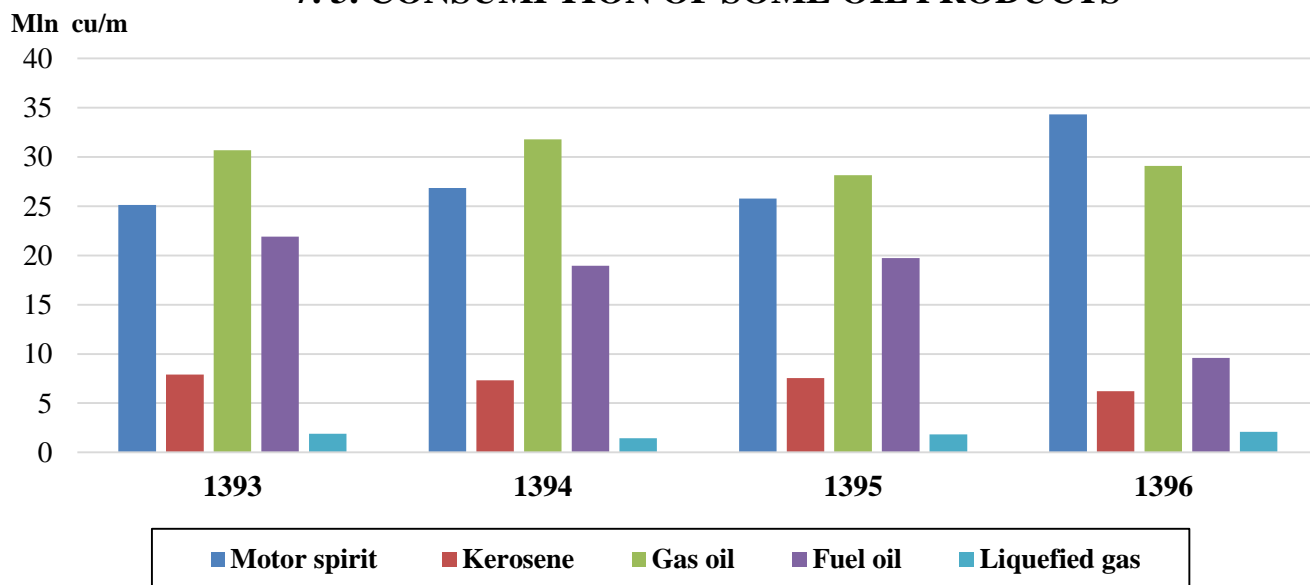
**7.6. TRANSPORTED OIL PRODUCTS BY MEANS OF TRANSPORT**

(mln ton kms)

Means of transport	Year							
	1380	1385	1390	1393	1394	1395	1396	1397
<b>Total</b> .....	<b>32397</b>	<b>39185</b>	<b>37249</b>	<b>37192</b>	<b>36429</b>	<b>38024</b>	<b>42749</b>	<b>44012</b>
Pipelines .....	21024	25194	21854	22485	21359	22145	26432	25002
Railway .....	1977	2547	1661	2082	2069	2505	2168	2890
Road vehicles .....	7893	8995	7844	9565	10754	11947	13196	14566
Tankers .....	1503	2449	5890	3060	2247	1427	953	1554

Sources: Ministry of Oil.

**7.3. CONSUMPTION OF SOME OIL PRODUCTS**



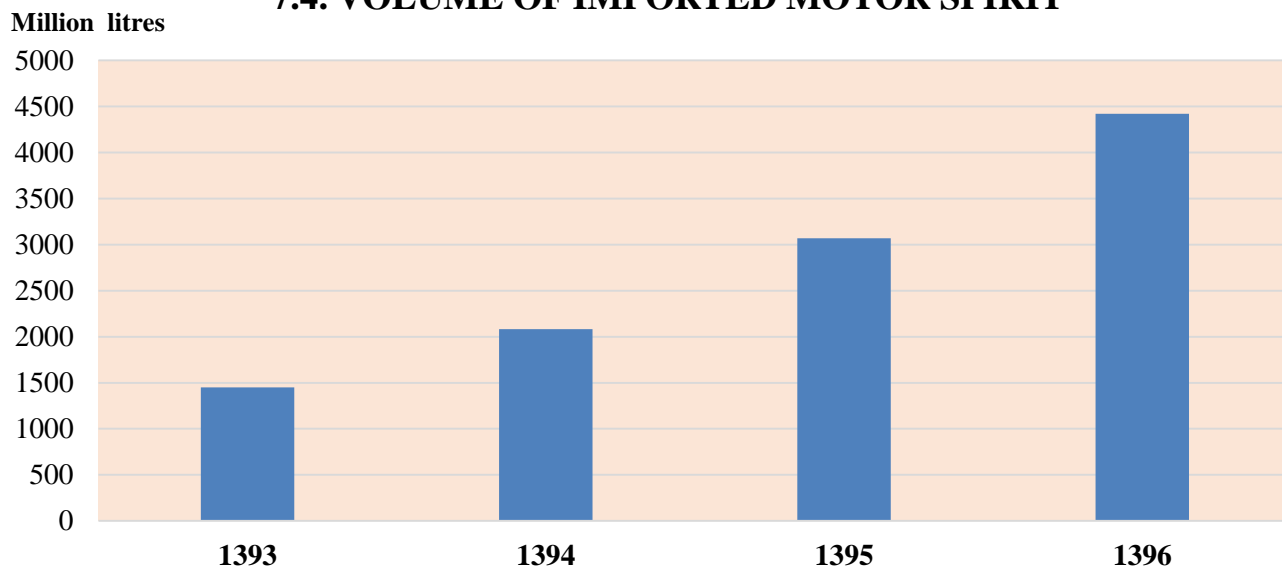
For data see Table 7.4.

**7.7. AVERAGE PRODUCTION OF ENRICHED GAS BY SOURCE OF PRODUCTION (mln cu m/day)**

Resource	Year							
	1380	1385	1390	1393	1394	1395	1396	1397
<b>Total.....</b>	<b>312</b>	<b>464</b>	<b>631</b>	<b>683</b>	<b>714.5</b>	<b>778.57</b>	<b>844.91</b>	<b>000</b>
Associated gas.....	88	98 <sup>(1)</sup>	104	78	77.2	96.59	102.02	000
Cap gas.....	51	34 <sup>(1)</sup>	30	29	28.7	27.45	27.80	000
Gas of independent gas fields .....	172	333 <sup>(1)</sup>	497	576	608.6	654.53	715.09	000

*1. Revised figures.  
Source: Ministry of Oil.*

**7.4. VOLUME OF IMPORTED MOTOR SPIRIT**



For data see Table 7.5.



### 7.8. CITIES SUPPLIED OR BEING SUPPLIED WITH PIPED GAS AND HOUSEHOLDS COVERED IN THIS PROGRAMME AT THE END OF THE YEAR <sup>(1)</sup>

Year and Ostan	Cities supplied with piped gas <sup>(2)</sup>		Cities being supplied with piped gas <sup>(3)</sup>
	Number	Number of households	
1380 <sup>(4)</sup> .....	393	13930668	79
1385 <sup>(4)</sup> .....	690	16678575	82
1390 <sup>(4)</sup> .....	995	17513996	000
1393 <sup>(4)</sup> .....	1066	17658160	46
1394 <sup>(4)</sup> .....	1097	17723726	50
1395 <sup>(4)</sup> .....	1118	17932052	25
1396 <sup>(4)</sup> .....	1148	17968984	47
<b>1397.....</b>	<b>1171</b>	<b>18066054</b>	<b>50</b>
East Azarbayejan.....	67	890557	0
West Azarbayejan.....	42	633403	1
Ardebil.....	29	257887	0
Esfahan.....	107	1410677	4
Alborz.....	16	792535	0
Ilam.....	24	108407	2
Bushehr.....	36	234643	0
Tehran.....	48	4406914	0
Chaharmahal&Bakhtiari.....	39	175505	1
South Khorasan.....	30	130400	0
Khorasan-e-Razavi.....	76	1429814	1
North Khorasan.....	22	143175	0
Khuzestan.....	80	985443	2
Zanjan.....	21	217688	0
Semnan.....	20	169707	0
Sistan&Baluchestan.....	3	209335	3
Fars.....	96	1013422	9
Qazvin.....	25	295019	0
Qom.....	6	365334	0
Kordestan.....	31	337871	0
Kerman.....	53	511734	16
Kermanshah.....	28	437429	3
Kohgiluyeh&Boyerahmad.....	17	103270	0
Golestan.....	33	305964	0
Gilan.....	51	537270	0
Lorestan.....	24	333502	1
Mazandaran.....	56	622281	2
Markazi.....	35	350287	0
Hormozgan.....	4	19910	5
Hamedan.....	31	346041	0
Yazd.....	21	290630	0

1. The number of cities are based on the definitions provided by the Ministry of Oil.

2. Including all cities, parts of which are gas consumers.

3. Including cities where piped gas supply operations have already started.

4. Revised figures.

Source: Ministry of Oil.

### 7.9. VILLAGES SUPPLIED OR BEING SUPPLIED WITH PIPED GAS AND HOUSEHOLDS COVERED IN THIS PROGRAMME AT THE END OF THE YEAR <sup>(1)</sup>

Year and Ostan	Villages supplied with piped gas <sup>(2)</sup>		Villages being supplied with piped gas <sup>(3)</sup>
	Number	Number of households	
1380 <sup>(4)</sup> .....	416	212071	000
1385 <sup>(4)</sup> .....	4344	1529093	2294
1390 <sup>(4)</sup> .....	12196	2903818	4715
1393 <sup>(4)</sup> .....	17477	3547235	2585
1394 <sup>(4)</sup> .....	19901	3799106	5514
1395 <sup>(4)</sup> .....	22928	4075774	4303
1396.....	25603	4301829	5120
<b>1397.....</b>	<b>28819</b>	<b>4565595</b>	<b>4174</b>
East Azarbayejan.....	1981	315778	205
West Azarbayejan.....	1073	193937	430
Ardebil.....	1236	110060	182
Esfahan.....	1058	180897	4
Alborz.....	145	57494	59
Ilam.....	377	41974	92
Bushehr.....	411	81974	1
Tehran.....	466	195001	11
Chaharmahal&Bakhtiari.....	472	82146	52
South Khorasan.....	487	56470	269
Khorasan-e-Razavi.....	2059	463251	425
North Khorasan.....	734	109416	9
Khuzestan.....	1774	250995	164
Zanjan.....	540	87961	72
Semnan.....	257	38485	14
Sistan&Baluchestan.....	4	2826	19
Fars.....	1760	322215	402
Qazvin.....	474	84489	82
Qom.....	136	16391	14
Kordestan.....	1169	116266	16
Kerman.....	1143	157467	380
Kermanshah.....	1264	92810	206
Kohgiluyeh&Boyerahmad.....	708	66465	223
Golestan.....	857	231083	22
Gilan.....	1992	297171	39
Lorestan.....	1583	142660	263
Mazandaran.....	2136	425633	412
Markazi.....	977	104273	6
Hormozgan.....	16	4737	9
Hamedan.....	1026	191916	0
Yazd.....	504	43354	92

1. The number of villages are based on the definitions provided by the Ministry of Oil.

2. Including all villages parts of which are gas consumers.

3. Including villages where piped gas supply operations have already started.

4. Revised figures.

Source: Ministry of Oil.

**7.10. NUMBER OF AVAILABLE GAS EXTENSIONS, NATURAL GAS CONSUMERS BY TYPE AND CONSUMPTION AT THE END OF THE YEAR <sup>(1)</sup>**

Year and Ostan	Extension (number)	Number of natural gas consumers (consumer)				Consumption (mln cu m/year)
		Total	Residential	Commercial	Industrial	
1380 <sup>(2)</sup> .....	3724769	5007481	4796531	206902	4048	62255
1385 <sup>(2)</sup> .....	6170548	9244178	8736507	485278	22393	103375
1390 <sup>(2)</sup> .....	8729783	14782893	13795904	924283	62706	144517
1393 <sup>(2)</sup> .....	9818230	18771822	17556852	1132877	82093	163558
1394 <sup>(2)</sup> .....	10295219	20066718	18714985	1260889	90844	171767
1395 <sup>(2)</sup> .....	10721161	21118327	19620388	1395697	102242	181314
1396 <sup>(2)</sup> .....	11196756	22228640	20684528	1438035	106077	190411
<b>1397.....</b>	<b>11625637</b>	<b>23335595</b>	<b>21639647</b>	<b>1580747</b>	<b>115201</b>	<b>199072</b>
East Azarbayejan.....	655384	1575578	1393439	172952	9187	9397
West Azarbayejan.....	428865	941223	845108	94395	1720	5535
Ardebil.....	229492	468972	426801	40218	1953	2453
Esfahan.....	1080620	1822894	1711721	96473	14700	19898
Alborz.....	273041	833738	771348	58278	4112	5592
Ilam.....	100322	157522	151181	5854	487	573
Bushehr.....	199304	177664	173768	3609	287	13368
Tehran.....	1264355	3331687	3048858	267241	15588	23186
Chaharmahal&Bakhtiari.....	183125	328449	305854	20927	1668	1434
South Khorasan.....	130815	235615	220785	14212	618	1507
Khorasan-e-Razavi.....	940292	2266588	2108089	150666	7833	12257
North Khorasan.....	168724	305463	279828	24946	689	2785
Khuzestan.....	657586	982446	960600	20713	1133	17814
Zanjan.....	181619	333564	306651	24995	1918	2499
Semnan.....	145477	288363	260856	24429	3078	2119
Sistan&Baluchestan.....	22560	31976	31497	475	4	1371
Fars.....	780436	1423384	1352327	67722	3335	12431
Qazvin.....	202931	418974	384284	32305	2385	5099
Qom.....	171218	397708	372250	22211	3247	2361
Kordestan.....	280648	540541	505202	33662	1677	2923
Kerman.....	391688	611688	578572	29318	3798	7685
Kermanshah.....	253848	570991	534553	35106	1332	4216
Kohgiluyeh&Boyerahmad.....	114816	170302	162452	7375	475	611
Golestan.....	287855	558805	522119	33976	2710	2971
Gilan.....	588560	1041844	961459	74898	5487	6290
Lorestan.....	255668	539266	512750	25129	1387	1765
Mazandaran.....	768420	1374720	1276012	88508	10200	7200
Markazi.....	292161	554205	512426	36537	5242	6384
Hormozgan.....	15145	9732	9274	312	146	6803
Hamedan.....	319596	601511	558082	40715	2714	3608
Yazd.....	241066	440182	401501	32590	6091	6938

1. Including extensions not yet utilized.

2. Revised figures.

Source: Ministry of Oil.

**7.11. LIQUEFIED GAS DELIVERED BY REFINERIES FOR DISTRIBUTION <sup>(1)</sup> (1000 tons)**

Year	Total	Abadan	Arak	Esfahan	Bandar Abbas	Tabriz	Tehran	Shiraz	Kermanshah	Reservation centres
1380.....	1394 <sup>(2)</sup>	310	175	442	235	134	23	49	26	0
1385.....	1489	295	189	392	201	101	234	54	23	0
1390.....	1847 <sup>(2)</sup>	438	231	452	241	119	287	58	21	0
1393.....	2036 <sup>(2)</sup>	293	599	403	282	94	295	50	20	0
1394.....	2149 <sup>(2)</sup>	425	550	449	256	<sup>(2)</sup> 110	296	49	14	0
1395.....	2174 <sup>(2)</sup>	508	593	393	239	<sup>(2)</sup> 109	271	49	12	0
1396.....	2112	472	569	378	246	77	314	42	14	0
<b>1397.....</b>	<b>2028</b>	<b>315</b>	<b>658</b>	<b>358</b>	<b>237</b>	<b>87</b>	<b>317</b>	<b>40</b>	<b>15</b>	<b>0</b>

1. Excluding total delivery of liquefied gas for Lavan and Setare Khalij Fars Refinery.

2. Revised figures.

Source: Ministry of Oil.

**7.12. TOTAL PRODUCTION OF NATIONAL PETROCHEMICAL COMPANY BY PRODUCTS CATEGORY <sup>(1)</sup> (1000 tons)**

Products category	Year							
	1380	1385	1390	1393	1394	1395	1396	1397
<b>Total .....</b>	<b>12543</b>	<b>18000</b>	<b>42736</b>	<b>44511</b>	<b>46408</b>	<b>50624</b>	<b>53624</b>	<b>53350</b>
Polymers.....	780	1396	4182	5325	5708	6133	6890	6842
Chemicals.....	3070	5178	13779	14782	15458	21266	22683	23286
Aromatics.....	1032	1241	3283	3086	2825	3343	3292	3879
Fuel .....	2911	5787	12837	12622	13680	14569	14903	12910
Fertilizers and pesticides.....	4750	4398	8655	8696	8737	5313	5856	6433

1. Including internal consumption of petrochemical complexes.

Source: Ministry of Oil.

**7.13. QUANTITY AND VALUE OF NPC'S DOMESTIC SALES BY PRODUCTS CATEGORY**  
(1000 tons; bln rials)

Products category	Year							
	1380 <sup>(1)</sup>		1385 <sup>(1)</sup>		1390 <sup>(1)</sup>		1393 <sup>(1)</sup>	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Total.....</b>	<b>4180</b>	<b>6053</b>	<b>4738</b>	<b>19261</b>	<b>4821</b>	<b>51412</b>	<b>9032</b>	<b>206739</b>
Polymers.....	741	3300	1149	8811	1946	33641	2644	107838
Chemicals.....	777	1032	940	4973	1124	5800	1586	21097
Aromatics.....	248	512	338	3212	184	2449	535	16161
fuel.....	501	316	558	1064	628	5934	2317	47865
Fertilizers and pesticides.....	1913	893	1753	1201	939	3588	1950	13777

Products category	Year							
	1394 <sup>(1)</sup>		1395 <sup>(1)</sup>		1396 <sup>(1)</sup>		1397 <sup>(1)</sup>	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Total.....</b>	<b>6515</b>	<b>140130</b>	<b>7443</b>	<b>167616</b>	<b>8353</b>	<b>207590</b>	<b>8506</b>	<b>368360</b>
Polymers.....	2545	91800	2897	112416	3173	137888	3220	244807
Chemicals.....	1186	16573	1356	21623	2116	31118	1691	48751
Aromatics.....	395	9780	297	8725	321	11588	493	27848
Fuel.....	697	10672	679	10191	663	12809	726	29423
Fertilizers and pesticides.....	1692	11305	2214	14661	2081	14187	2376	17531

1. Revised figures. Information for the years 1380 to 1396 excludes inter-complex (plants) sale.

Source: Ministry of Oil.

**7.14. QUANTITY AND VALUE OF NPC'S EXPORTS BY PRODUCTS CATEGORY****(1000 tons; mln dollars)**

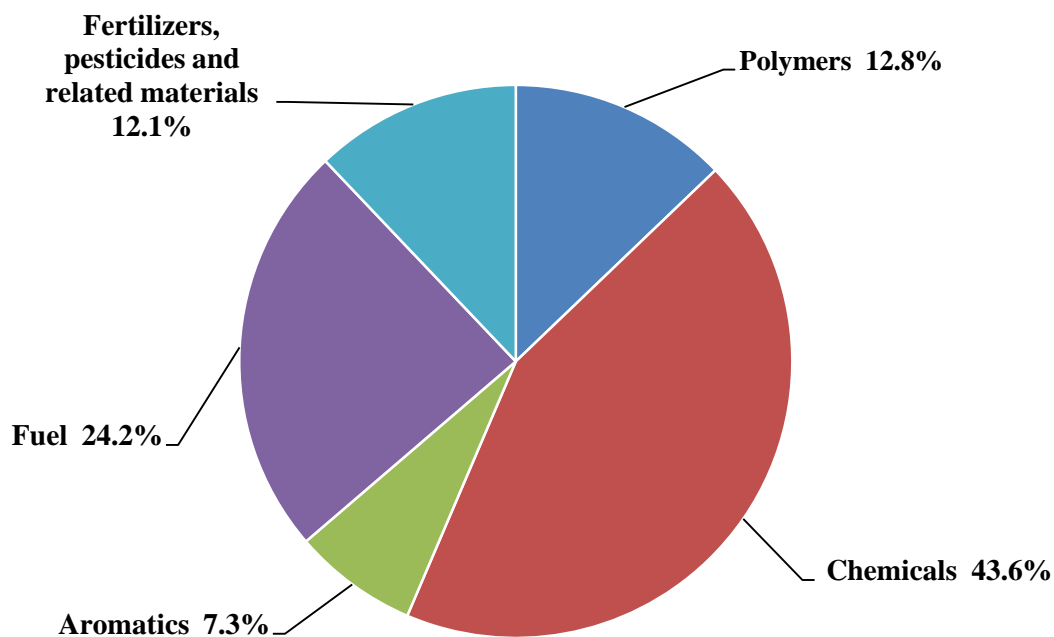
Products category	Year							
	1380 <sup>(1)</sup>		1385 <sup>(1)</sup>		1390 <sup>(1)</sup>		1393 <sup>(1)</sup>	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Total .....</b>	<b>4011</b>	<b>796</b>	<b>6044</b>	<b>3299</b>	<b>17804</b>	<b>14055</b>	<b>15901</b>	<b>10285</b>
Polymers .....	142	73	478	527	1644	2414	2511	3293
Chemicals.....	1458	161	2273	845	6980	4055	6283	2512
Aromatics .....	385	117	444	457	1244	1711	964	1118
Fuel .....	2010	443	2849	1470	5413	4854	3717	2598
Fertilizers and pesticides .....	16	2	0	0	2523	1021	2426	764

Products category	Year							
	1394 <sup>(1)</sup>		1395 <sup>(1)</sup>		1396 <sup>(1)</sup>		1397	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Total .....</b>	<b>18807</b>	<b>9582</b>	<b>21153</b>	<b>9952</b>	<b>22404</b>	<b>11950</b>	<b>20307</b>	<b>11431</b>
Polymers .....	2566	3334	3135	3422	3804	4111	3458	3955
Chemicals.....	6569	2304	6868	2358	6791	2799	6964	2930
Aromatics .....	1312	1002	1374	989	1380	993	1467	1066
Fuel .....	5774	2203	6545	2533	6884	3261	4775	2597
Fertilizers and pesticides .....	2586	739	3231	650	3545	786	3643	883

1. Revised figures.

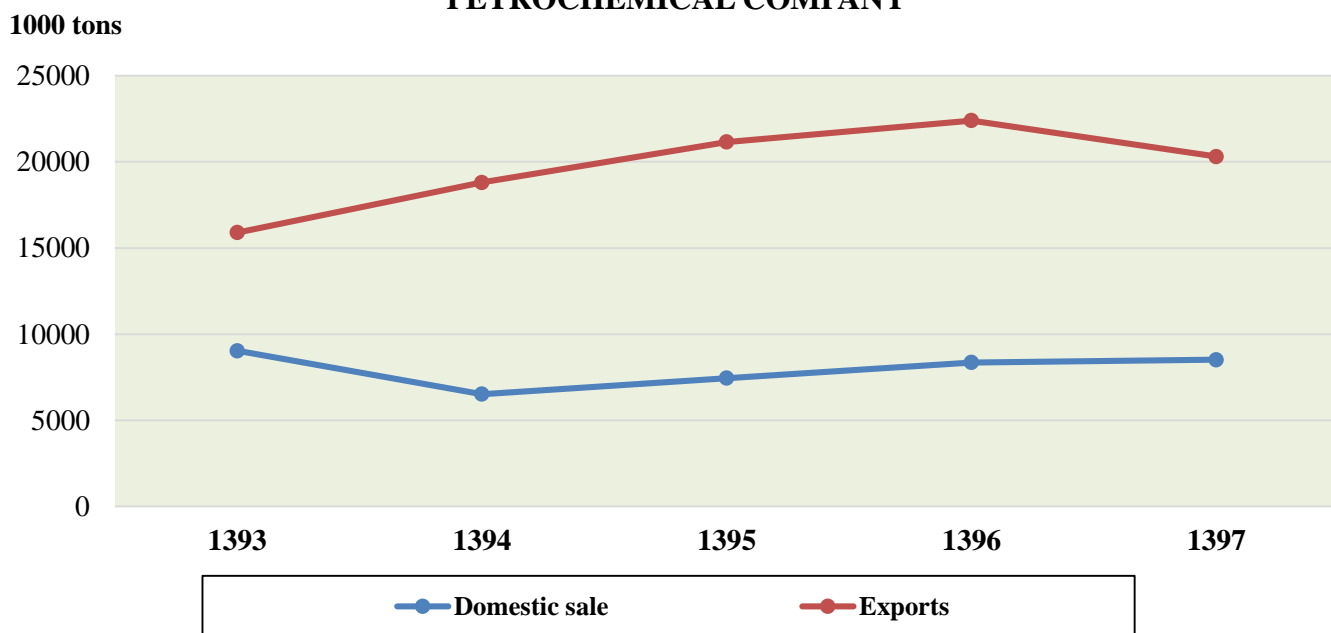
Source: Ministry of Oil.

**7.5 . TOTAL PRODUCTION OF NATIONAL PETROCHEMICAL COMPANY  
BY PRODUCTS CATEGORY, THE YEAR 1397**



For data see Table 7.12.

**7.6. VOLUME OF DOMESTIC SALES AND EXPORTS BY THE NATIONAL  
PETROCHEMICAL COMPANY**



For data see Tables 7.13 & 7.14.

