

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)¹.

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 JP4² and ATK³.

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

1) Organization of petroleum exporting countries

million dollars has been exported, which increased by 22.0 percent and decreased by 9.0 percent, respectively compared to the previous year.

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.

Gas customer: is the natural or legal person who can receive natural gas from gas distribution network.

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 1398, a total of 791320 thousand barrels of crude oil were exported, which shows a 9% increase compared to the preceding year.

In the year 1398, a number of 1192 cities and 31235 villages were supplied with piped gas, and 43 cities and 3960 villages were being supplied with piped gas.

The total production of the National Company of the Petrochemical Industries with a 10% increase stood at 55495 thousand tons in the year 1398 compared to the preceding year (the year 1397). Out of this amount, 8009 thousand tons valued at 535016 billion rials are related to the domestic sale which decreased by 5.0 and increased by 45.0 percent, respectively compared to the previous year. Also, 22262 thousand tons valued at 9497

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

Refinery	Year							
	1380 ⁽¹⁾	1385 ⁽¹⁾	1390 ⁽¹⁾	1394 ⁽¹⁾	1395 ^(1,2)	1396 ⁽¹⁾	1397	1398
Total.....	556260	556260	623055	623055	677832	675980	763580	791320
Abadan	142350	142350	142350	142350	142740	142350	142350	142350
Arak.....	63875	63875	91250	91250	91500	91250	91250	91250
Esfahan.....	103660	103660	103660	103660	103944	103660	103660	131400
Bandar Abbas.....	84680	84680	116800	116800	117120	116800	116800	116800
Tabriz	40150	40150	40150	40150	40260	40150	40150	40150
Tehran	82125	82125	82125	82125	91500	91250	91250	91250
Shiraz	20440	20440	20440	20440	20496	20440	20440	20440
Kermanshah	8030	8030	8030	8030	8052	8030	8030	8030
Lavan (distillation complex)	10950	10950	18250	18250	18300	18250	18250	18250
Gas condensate of Persian Gulf Star	×	×	×	×	43920	43800	131400	131400

1. Revised figures.

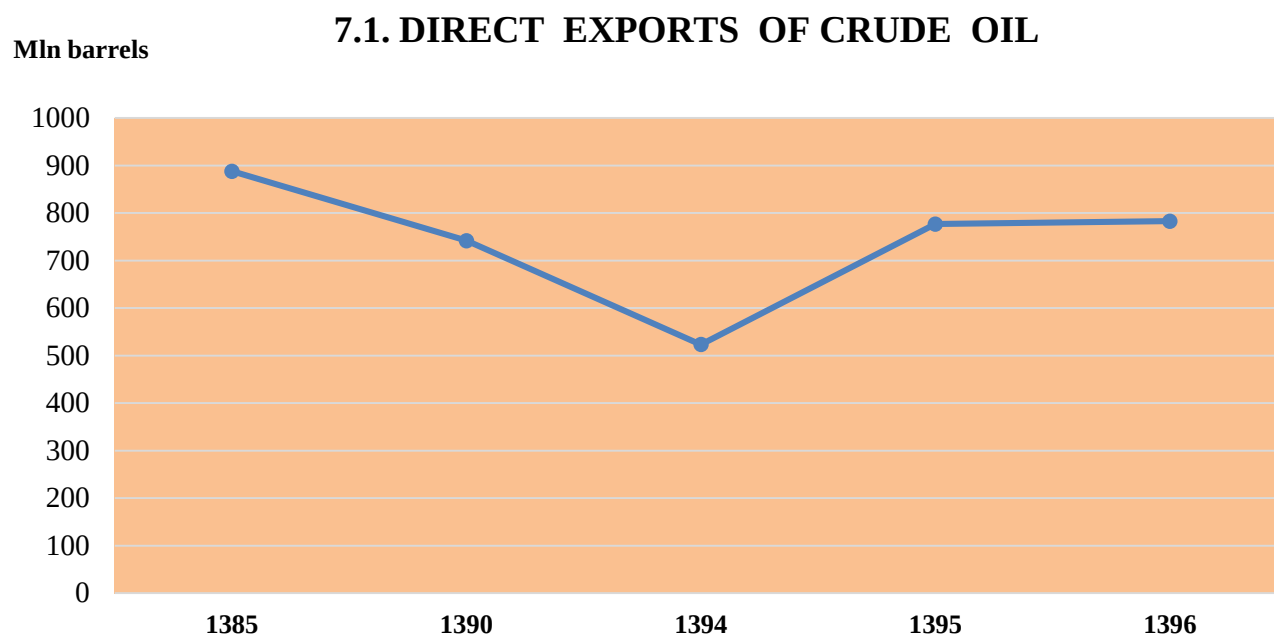
2. The year 1395 was a leap year.

Source: Ministry of Oil.

7.2. DIRECT EXPORT OF CRUDE OIL AND OIL PRODUCTS

Description	Year							
	1380	1385	1390	1394	1395	1396	1397	1398
Crude oil (1000 barrels).....	730000	887881	741939	523392	777714	782880	000	000
Oil products (mln lit/day)	42	42	14	28	23	41	000	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	1394	1395	1396	1397	1398
Total.....	245891⁽¹⁾	257313⁽¹⁾	000	000	000	000	000	000
Liquefied gas.....	8298	8016	10120	10135	9068	10774	000	000
Motor spirit	37128 ⁽¹⁾	44664 ⁽¹⁾	54820	67872	62177	81911	000	000
Kerosene.....	27160	21048	20199	20061	20710	17035	000	000
Gas oil	70879	80473	80352	87606	80339	84795	000	000
Fuel oil	80152	76205	65643	72302	69942	56853	000	000
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 ⁽²⁾	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.

Source: Ministry of Oil.

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

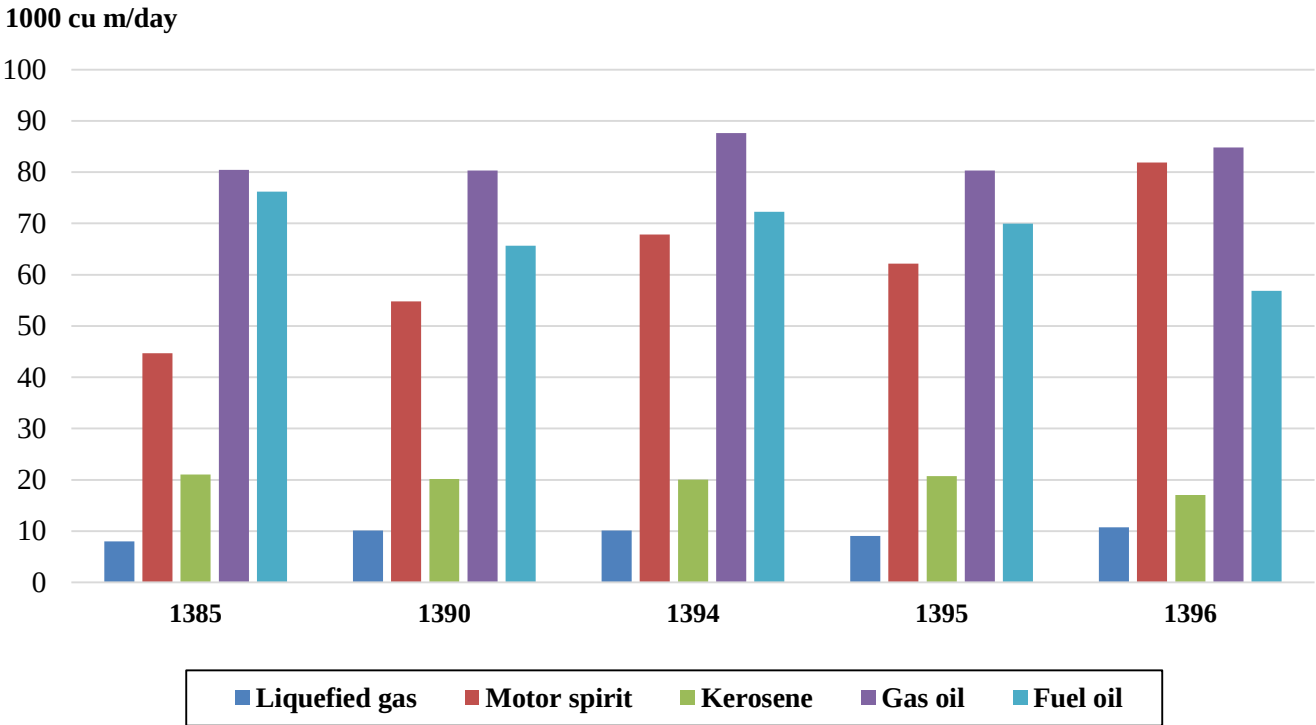
Product	Year							
	1380	1385	1390	1394	1395	1396	1397	1398
Motor spirit ⁽¹⁾	16723	26887	20884	26856	25762	34317	0	000
Jet fuel G.P.4.....	157	99	000	000	000	000	000	000
Jet fuel A. T. K.....	943	1155	000	000	000	000	000	000
Kerosene.....	8954	7199	7257	7322	7559	6218	000	000
Gas oil	25215	31471	29427	31794	28131	29102	000	000
Fuel oil	15245	15644	19909	18939	19747	9593	000	000
Lubricants	390	000	000	000	000	000	000	000
Bitumen	2100	4202 ⁽²⁾	000	000	000	000	000	000
Liquefied gas	4163	3922	2739	1447	1839	2079	000	000
Crude lubricants	351	1668	000	000	000	000	000	000
Benzinc solvents	12	42	000	000	000	000	000	000
Napht Solvents.....	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.

Source: Ministry of Oil.

7.2. SELECTED OIL PRODUCTS OF REFINERIES



For data see Table 7.3.

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

Product	Year							
	1380	1385	1390	1394	1395	1396	1397	1398
Total	2840	11897	000	000	000	000	000	000
Motor spirit	2840	10038	000	2082	3067	4419	000	000
Kerosene.....	000	000	000	000	000	000	000	000
Gas oil	000	1858	000	000	000	000	000	000
Aircraft gasoline.....	000	2	000	000	000	000	000	000

Source: Ministry of Oil.

7.6. TRANSPORTED OIL PRODUCTS BY MEANS OF TRANSPORT**(mln ton kms)**

Means of transport	Year							
	1380 ⁽¹⁾	1385	1390 ⁽¹⁾	1394	1395	1396	1397	1398
Total	32397	39185	37249	36429	38024	42749	44012	48789
Pipelines	21024	25194	21854	21359	22145	26432	25002	28083
Railway	1977	2547	1661	2069	2505	2168	2890	3476
Road vehicles	7893	8995	7844	10754	11947	13196	14566	14695
Tankers	1503	2449	5890	2247	1427	953	1554	2535

1. Revised figures.

Source: Ministry of Oil.

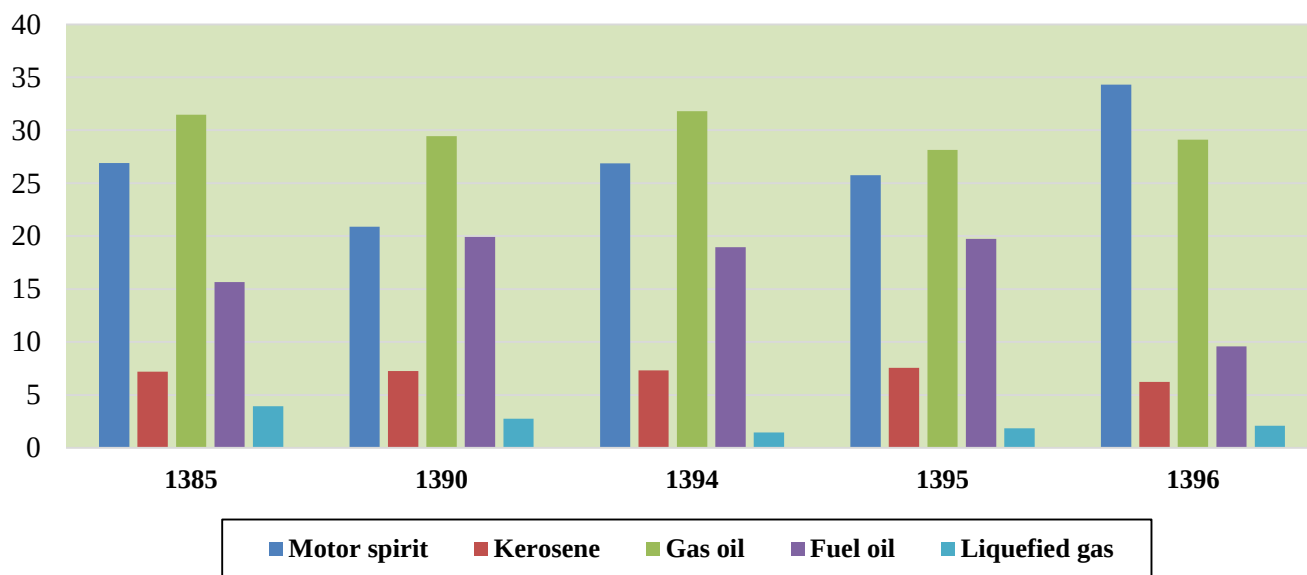
7.7. AVERAGE PRODUCTION OF ENRICHED GAS BY SOURCE OF PRODUCTION**(mln cu m/day)**

Resource	Year							
	1380	1385	1390	1394	1395	1396	1397	1398
Total.....	312	464⁽¹⁾	631	715	779	845	000	000
Associated gas.....	88	98 ⁽¹⁾	104	77	97	102	000	000
Cap gas.....	51	34 ⁽¹⁾	30	29	28	28	000	000
Gas of independent gas fields	172	333 ⁽¹⁾	497	609	655	715	000	000

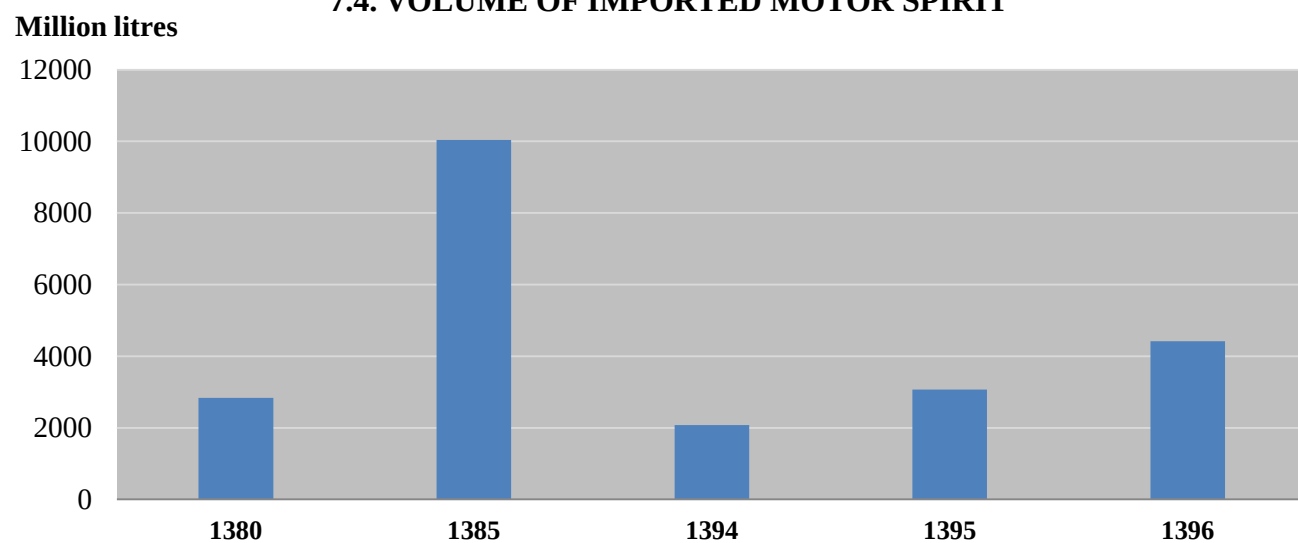
1. Revised figures.

Source: Ministry of Oil.

Mln cu/m

7.3. CONSUMPTION OF SOME OIL PRODUCTS

For data see Table 7.4.

7.4. VOLUME OF IMPORTED MOTOR SPIRIT

For data, see Table 7.5.

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

Year and Ostan	Cities supplied with piped gas ⁽²⁾		Cities being supplied with piped gas ⁽³⁾
	Number	Number of households	
1380 ⁽⁴⁾	380	13842345	79
1385 ⁽⁴⁾	694	16406766	82
1390 ⁽⁴⁾	998	17512239	0
1394 ⁽⁴⁾	1102	17723919	50
1395 ⁽⁴⁾	1123	17932245	25
1396 ⁽⁴⁾	1153	17969177	47
1397 ⁽⁴⁾	1177	18067454	50
1398.....	1192	18087721	43
East Azarbayejan.....	67	890557	0
West Azarbayejan	42	633403	3
Ardebil	29	257887	0
Esfahan.....	109	1413063	1
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.....	79	1427578	0
North Khorasan	22	143175	0
Khuzestan.....	81	985678	2
Zanjan	21	217688	0
Semnan.....	20	169707	0
Sistan&Baluchestan	5	215008	2
Fars.....	101	1017878	9
Qazvin	25	295019	0
Qom.....	6	365334	0
Kordestan	31	337871	0
Kerman.....	56	515181	14
Kermanshah	28	437429	3
Kohgiluyeh&Boyerahmad	17	103270	0
Golestan	33	305964	0
Gilan.....	51	537270	0
Lorestan.....	24	333502	1
Mazandaran.....	59	624935	2
Markazi	35	350287	0
Hormozgan.....	6	24962	3
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 ⁽¹⁾ OR BEING SUPPLIED WITH PIPED GAS AND HOUSEHOLDS COVERED IN THIS PROGRAMME AT THE END OF THE YEAR

Year and Ostan	Villages supplied with piped gas ⁽²⁾		Villages being supplied with piped gas ⁽³⁾
	Number	Number of households	
1380.....	416	212071	000
1385.....	4344	1527073	2294
1390 ⁽⁴⁾	12196	2901337	4715
1394 ⁽⁴⁾	19901	3795070	5514
1395 ⁽⁴⁾	22929	4071715	4303
1396 ⁽⁴⁾	25604	4297660	5120
1397 ⁽⁴⁾	28814	4561313	4174
1398.....	31235	4713119	3960
East Azarbayejan.....	2109	321341	271
West Azarbayejan	1161	202170	506
Ardebil	1341	113085	73
Esfahan.....	1059	180897	5
Alborz	154	57858	51
Ilam	453	45520	22
Bushehr	422	82138	0
Tehran	476	197243	48
Chaharmahal&Bakhtiari	509	84691	20
South Khorasan	769	71657	160
Khorasan-e-Razavi.....	2216	477477	356
North Khorasan	739	109869	5
Khuzestan.....	1880	256512	185
Zanjan	591	93528	23
Semnan.....	266	39094	18
Sistan&Baluchestan	7	3770	16
Fars.....	2059	350376	217
Qazvin	515	86434	54
Qom.....	149	17198	10
Kordestan	1296	121387	80
Kerman.....	1281	169653	355
Kermanshah	1461	100838	513
Kohgiluyeh&Boyerahmad	829	70562	211
Golestan	880	233834	22
Gilan.....	2035	299277	74
Lorestan.....	1709	146993	301
Mazandaran.....	2283	431747	212
Markazi	1001	104893	9
Hormozgan.....	27	6819	0
Hamedan	1026	192007	2
Yazd	532	44251	141

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 ⁽¹⁾, NATURAL GAS CONSUMERS BY TYPE AND CONSUMPTION AT THE END OF THE YEAR

Year and Ostan	Extension (number)	Number of natural gas consumers (consumer)				Consumption (mln cu m/year)
		Total	Residential	Commercial	Industrial	
1380 ⁽²⁾	3724769	5007481	4796531	206902	4048	62255
1385 ⁽²⁾	6170548	9244178	8736507	485278	22393	103375
1390 ⁽²⁾	8729783	14782893	13795904	924283	62706	144517
1394 ⁽²⁾	10334849	20368351	19016618	1260889	90844	173422
1395 ⁽²⁾	10770178	21421744	19923805	1395697	102242	184287
1396 ⁽²⁾	11226683	22488745	20944633	1438035	106077	192318
1397 ⁽²⁾	11613821	23510889	21814941	1580747	115201	200260
1398.....	11967383	24425476	22719066	1585913	120497	205250
East Azarbayejan.....	668606	1616359	1429738	178646	7975	9745
West Azarbayejan	454668	989512	889691	97879	1942	6069
Ardebil	236404	488529	447810	39303	1416	2688
Esfahan	1133754	1953508	1834650	109226	9632	20297
Alborz.....	276125	863385	799854	59513	4018	5847
Ilam.....	105829	169996	163052	6315	629	599
Bushehr.....	210189	212046	207752	3893	401	14860
Tehran	1176852	3451894	3190128	243960	17806	24194
Chaharmahal&Bakhtiari	186714	328215	304335	21960	1920	1627
South Khorasan	148110	260337	243487	15876	974	1497
Khorasan-e-Razavi.....	977952	2371885	2203705	153908	14272	12602
North Khorasan	174502	321021	296355	23994	672	2707
Khuzestan	685917	1043633	1020468	21598	1567	17663
Zanjan	190716	350356	321016	27247	2093	2748
Semnan.....	142720	295892	270443	22887	2562	2073
Sistan&Baluchestan	33628	51391	50685	700	6	1389
Fars	818353	1468468	1387888	74877	5703	12224
Qazvin	206974	430781	391407	35697	3677	4967
Qom	175190	411154	384166	23258	3730	2578
Kordestan	262237	538701	501982	34305	2414	3014
Kerman	424641	656452	637575	18087	790	8308
Kermanshah	262394	591974	561763	28078	2133	4314
Kohgiluyeh&Boyerahmad	121426	194365	185606	7760	999	643
Golestan	293966	577115	550803	24342	1970	3046
Gilan.....	595053	1094813	1008155	80942	5716	6262
Lorestan.....	262299	540845	515524	24360	961	1909
Mazandaran.....	793569	1441324	1335397	94144	11783	7765
Markazi	292235	614394	575707	35915	2772	6961
Hormozgan.....	19583	12133	11599	354	180	6496
Hamedan	388852	621984	576789	42091	3104	2798
Yazd	247925	463014	421536	34798	6680	7362

1. Including extensions not yet utilized.

2. Revised figures.

Source: Ministry of Oil.

7.11. LIQUEFIED GAS DELIVERED BY REFINERIES FOR DISTRIBUTION ⁽¹⁾ (1000 tons)

Year	Total	Abadan	Arak	Esfahan	Bandar Abbas	Tabriz	Tehran	Shiraz	Kermanshah	Reservation centres
1380.....	1394 ⁽²⁾	310	175	442	235	134	23	49	26	0
1385.....	1489	295	189	392	201	101	234	54	23	0
1390	1847 ⁽²⁾	438	231	452	241	119	287	58	21	0
1394	2149 ⁽²⁾	425	550	449	256	110 ⁽²⁾	296	49	14	0
1395	2174 ⁽²⁾	508	593	393	239	109 ⁽²⁾	271	49	12	0
1396	2112	472	569	378	246	77	314	42	14	0
1397	2028	315	658	358	237	87	317	40	15	000
1398.....	2079	379	638	431	180	109	287	40	15	000

1. Excluding total delivery of liquefied gas for Lavan and Setare Khali Fars (Persian Gulf) Refinery.

2. Revised figures.

Source: Ministry of Oil.

7.12. TOTAL PRODUCTION OF NATIONAL PETROCHEMICAL COMPANY BY PRODUCTS CATEGORY ⁽¹⁾ (1000 tons)

Products category	Year							
	1380	1385	1390	1394 ⁽²⁾	1395 ⁽²⁾	1396 ⁽²⁾	1397 ⁽²⁾	1398
Total	12543	18000	42736	46411	50628	53626	53375	55495
Polymers.....	780	1396	4182	5706	6133	6890	6844	7294
Chemicals.....	3070	5178	13779	15458	21118	22685	23308	24754
Aromatics	1032	1241	3283	2825	2955	3292	3879	4108
Fuel	2911	5787	12837	13684	15110	14903	12911	13079
Fertilizers and pesticides.....	4750	4398	8655	8738	5312	5856	6433	6259

1. Including internal consumption of petrochemical complexes.

2. Revised figures.

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 ⁽¹⁾		1385 ⁽¹⁾		1390 ⁽¹⁾		1394 ⁽¹⁾	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Total.....	4181	6054	4819	20609	5634	61648	6515	140132
Polymers.....	655	3292	1044	9528	2426	38508	2545	91800
Chemicals.....	867	1087	1002	3557	1227	8548	1182	16522
Aromatics.....	242	521	446	4132	222	3000	395	9786
fuel.....	504	262	575	2191	820	8001	701	10718
Fertilizers and pesticides.....	1913	892	1752	1201	939	3591	1692	11306

Products category	Year							
	1395 ⁽¹⁾		1396 ⁽¹⁾		1397 ⁽¹⁾		1398 ⁽¹⁾	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Total	7443	167616	8354	207590	8506	368360	8009	535016
Polymers	2897	112416	3173	137888	3220	244807	3245	349181
Chemicals	1356	21623	2116	31118	1691	48751	1316	63544
Aromatics	297	8725	321	11588	493	27848	534	43883
Fuel.....	679	10191	663	12809	726	29423	760	47605
Fertilizers and pesticides	2214	14661	2081	14187	2376	17531	2154	30803

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)**

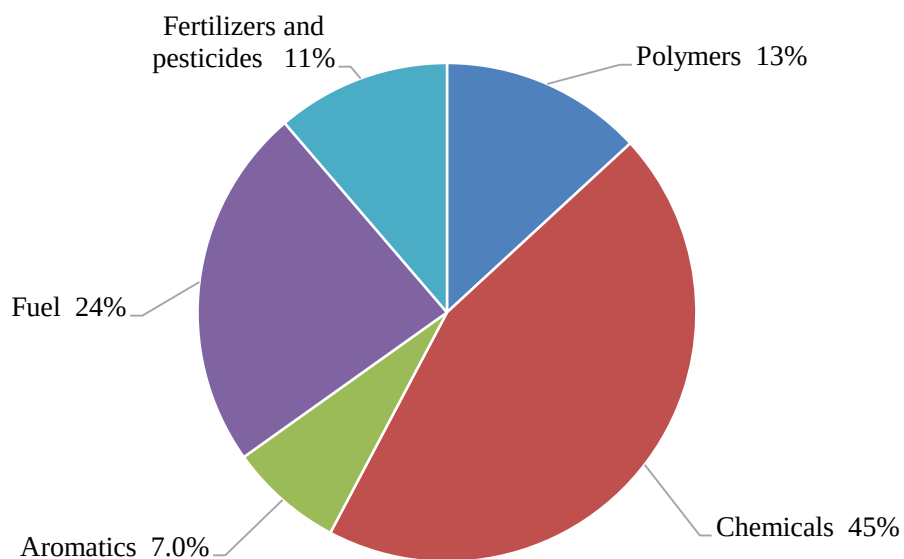
Products category	Year							
	1380 ⁽¹⁾		1385 ⁽¹⁾		1390 ⁽¹⁾		1394 ⁽¹⁾	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Total	4011	795	6013	3320	18192	14707	18807	9225
Polymers	142	73	340	415	1622	2575	2566	2976
Chemicals.....	1520	181	2217	899	7152	4259	6532	2283
Aromatics	385	116	445	461	1193	1682	1312	1003
Fuel	1948	423	3011	1545	5702	5169	5811	2224
Fertilizers and pesticides	16	2	0	0	2523	1022	2586	739

Products category	Year							
	1395 ⁽¹⁾		1396 ⁽¹⁾		1397 ⁽¹⁾		1398	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Total	21153	9952	22404	11950	20307	11431	22262	9497
Polymers	3135	3422	3804	4111	3458	3955	3756	3288
Chemicals.....	6868	2358	6791	2799	6964	2930	8331	2234
Aromatics	1374	989	1380	993	1467	1066	1517	1005
Fuel	6545	2533	6884	3261	4775	2597	4437	2132
Fertilizers and pesticides	3231	650	3545	786	3643	883	4221	838

1. Revised figures.

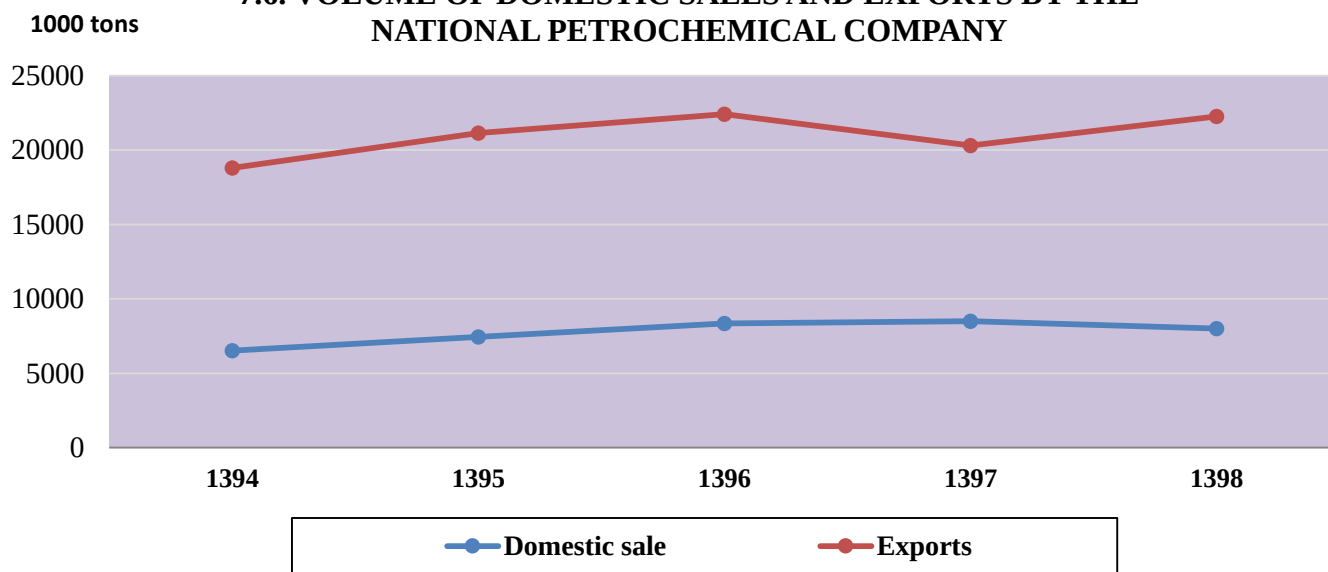
Source: Ministry of Oil.

7.5 . TOTAL PRODUCTION OF NATIONAL PETROCHEMICAL COMPANY BY PRODUCTS CATEGORY, THE YEAR 1398



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.