



# Oil and Gas





### Introduction

**S**ince 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 some data are available. After nationalization of the oil industry in Esfand 1329, the National Iranian Oil Company (NIOC) managed to release some more data. The data furnished by the NIOC for the year 1334(1955) 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 installation 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 abundant resources of oil and gas available in the country, high value-added of the industry, and some other factors, production of chemicals and petrochemicals has received great attention. The statistics appearing in this chapter are currently provided by Deputy for Planning and Supervision of hydrocarbon resources of the ministry of oil.

For additional information, provided by the Organization of the Petroleum Exporting Countries<sup>1</sup> (OPEC), see Chapter 24 (International Statistics)

#### Definitions and concepts

**Crude oil:** a mixture of hydrocarbons that is 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 contains nitrogen, oxygen, sulphur, nickel, sodium,

vanadium and iron as well. As a result of the changes in the amount of these elements, crude oil is much diversified physically and chemically.

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

**Motor spirit:** 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 engines fuel for fighter and passenger aircrafts. It is produced in different types in terms of 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 and ATK.

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

**Sweet gas:** enriched (natural) gas obtained from further refining, that is, separation of liquids and gaseous impurities from enriched gas.

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

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

**Gas customer:** the natural or legal person whose characteristics have been registered and who has

<sup>1</sup> Organization of the Petroleum Exporting Countries.

been given a customer number after his/her submission of required documents and payment of related costs based on formal procedure for admission of natural gas applicant.

**Gas consumer:** the person who consumes gas after subscription and operations of gas supply.

**Gas extension:** 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 polymer include:

- (a) Major: polyethylenes, PVC, polypropylene, polystyrene, melamine crystal, polyester (PET) and ABS.
- (b) Engineering: polycarbonate and epoxy.
- (c) Rubbers: styrene-butadiene, 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.
- (c) 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:** include propane, butane, pentane plus, pentane, pyrolysis gasoline, C4 raffinate, C6 raffinate, CFO, and MTBE.

#### **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.

#### **Selected information**

In the year 1394, a total of 523392 thousand barrels of crude oil were exported, which shows a 6.8% increase compared to the preceding year. Also in the same year, the amount of oil products exports was 28 mln liters per day with a 47.4% increase compared to the preceding year.

Furthermore, in that year, the production of some oil products in the total national refineries by cum/day is: liquefied gas 10135; motor spirit (without MTBE and consumption super gasoline) 67872, burning oil 20061 and gas oil 87606 which shows a 7.0, 4.6, -7.3 and 4.5 percent change compared to the preceding year, respectively.

In the year 1394, oil gas with the consumption of 31794 thousand cu m per day had the highest share of consumption among all kinds of oil products and motor spirit with 26856 thousand cu m/day was at the second rank.

In the year 1394, the amount of motor spirit imports with a 43.5% increase reached 2082 mln liters compared to the preceding year.

In the year 1394, out of 1243 cities of the country, 1063 cities were supplied with piped gas and 50 cities were being supplied with piped gas.

The total production of the National Company of the Petrochemical Industries with a 4.3% increase compared to the preceding year reached 46408 thousand tons in the year 1394. Out of this amount, 18660 thousand tons valuing 9400 mln US \$ have been exported which shows a 17.5 and 8.5 percent increase, by volume and decrease value, respectively compared to the previous year.

**7. 1. CRUDE OIL PRODUCTION CAPACITY (mln barrels)**

Description	1375	1380	1385	1390	1391	1392	1393	1394
Capacity .....	1417	1533	1561	000	000	000	000	000

Source: Ministry of Oil.

**7. 2. CAPACITY OF DOMESTIC OIL REFINERIES (1000 barrels)**

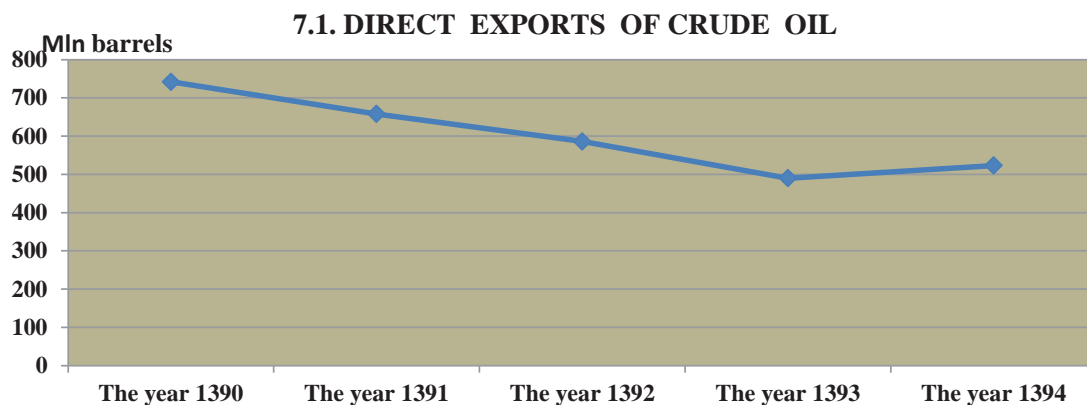
Refinery	1375	1380	1385	1390	1391	1392	1393	1394
<b>Total .....</b>	<b>498296</b>	<b>501510</b>	<b>491655</b>	<b>570130</b>	<b>570130</b>	<b>666125</b>	<b>666125</b>	<b>653350</b>
Abadan .....	143564	000	127750	127750	127750	142350	142350	142350
Arak .....	63035	000	54750	91250	91250	91250	91250	83950
Esfahan .....	130018	000	73000	73000	73000	136875	136875	131400
Bandar Abbas .....	×	000	84680	116800	116800	116800	116800	116800
Tabriz .....	41098	000	40150	40150	40150	40150	40150	40150
Tehran .....	85071	000	80300	80300	80300	91250	91250	91250
Shiraz .....	16256	000	14600	14600	14600	21170	21170	21170
Kermanshah .....	8564	000	9125	8030	8030	8030	8030	8030
Lavan (distillation complex) .....	10691	000	7300	18250	18250	18250	18250	18250

Source: Ministry of Oil.

**7. 3. DIRECT EXPORT OF CRUDE OIL AND OIL PRODUCTS**

Description	1375	1380	1385	1390	1391	1392	1393	1394
Crude oil (1000 barrels) .....	930006	730000	887881	741939	658132	586081	490086	523392
Oil products (mln lit/day) ..	28	42	42	14	16	16	19	28

Source: Ministry of Oil.



For data see Table 7.3.

#### 7. 4. AVERAGE PRODUCTS OF REFINERIES

(cu m/day)

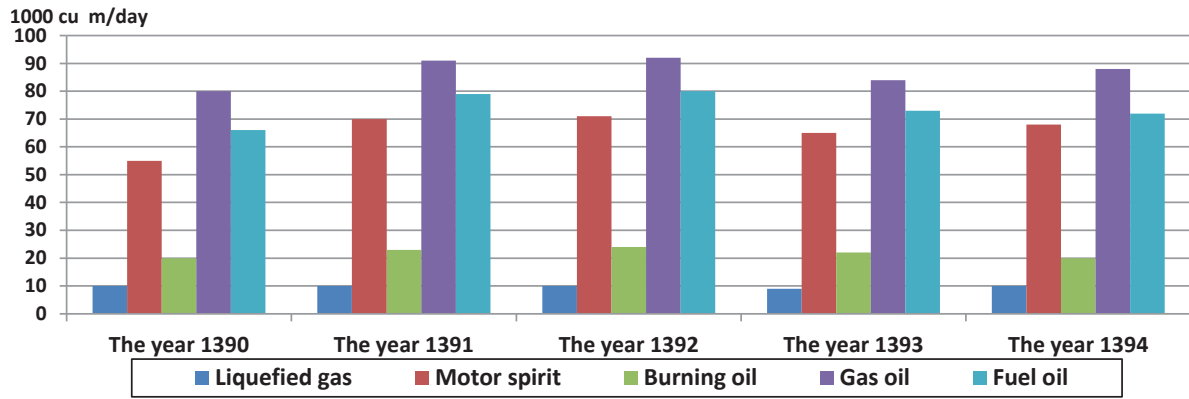
Product	1375	1380	1385	1390	1391	1392	1393	1394
<b>Total</b> .....	<b>206752</b>	<b><sup>(1)</sup>245891</b>	<b><sup>(1)</sup>257313</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
Liquefied gas.....	7341	8298	8016	10120	10303	10367	9476	10135
Motor spirit .....	28321	<sup>(1)</sup> 37128	<sup>(1)</sup> 44664	54820	70183	71216	64888	67872
Burning oil .....	25221	27160	21048	20199	23437	23739	21640	20061
Gas oil .....	57870	70879	80473	80352	91012	91982	83857	87606
Fuel oil .....	68650	80152	76205	65643	79087	80136	73045	72302
Jet fuels .....	2323	3098	3600	000	000	000	000	000
Lubricants.....	1098	1221	000	000	000	000	000	000
Bitumen .....	7593	8284	859	000	000	000	000	000
Other products <sup>(2)</sup> .....	8337	10382	24107	000	000	000	000	000

1. Motor spirit includes basic gasoline, MTBE, consumption super gasoline etc; however MTBE and consumption super gasoline 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 7.4.

## 7.5. AVERAGE OIL PRODUCTS BY REFINERY

(cu m/da)

Year and product	Total	Abadan	Arak	Esfahan	Bandar Abbas
1375.....	206752	61009	25978	53788	×
1380.....	245891	54486	25142	53947	41640
1385.....	257313	57485	28232	56649	42488
1390.....	000	000	000	000	000
1391.....	000	000	000	000	000
1392.....	000	000	000	000	000
1393.....	000	000	000	000	000
<b>1394.....</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
Liquefied gas .....	000	000	000	000	000
Motor spirit .....	000	000	000	000	000
Burning oil .....	000	000	000	000	000
Gas oil .....	000	000	000	000	000
Fuel oil .....	000	000	000	000	000
Jet fuels .....	000	000	000	000	000
Lubricants .....	000	000	000	000	000
Bitumen .....	000	000	000	000	000
Other products <sup>(1)</sup> .....	000	000	000	000	000

Year and product	Tabriz	Tehran	Shiraz	Kermanshah	Lavan (distillation complex)
1375.....	16944	34509	6510	3563	4451
1380.....	16668	37659	9113	3350	3885
1385.....	17031	38380	8975	3658	4417
1390.....	000	000	000	000	000
1391.....	000	000	000	000	000
1392.....	000	000	000	000	000
1393.....	000	000	000	000	000
<b>1394.....</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
Liquefied gas .....	000	000	000	000	000
Motor spirit .....	000	000	000	000	000
Burning oil .....	000	000	000	000	000
Gas oil .....	000	000	000	000	000
Fuel oil .....	000	000	000	000	000
Jet fuels .....	000	000	000	000	000
Lubricants .....	000	000	000	000	000
Bitumen .....	000	000	000	000	000
Other products <sup>(1)</sup> .....	000	000	000	000	000

1. Other oil products exclude semi-finished products, gas, hydrogen and sulfur.

Sources: Ministry of Oil.



**7. 6. CONSUMPTION OF OIL PRODUCTS**

(1000 cu m)

Product	1375	1380	1385	1390	1391	1392	1393	1394
Motor spirit <sup>(1)</sup> .....	12056	16723	26887	20884	26017	26992	25135	26856
Jet fuel G.P.4.....	165	157	99	000	000	000	000	000
Jet fuel A. T. K.....	716	943	1155	000	000	000	000	000
Burning oil .....	11148	8954	7199	7257	8537	8665	7899	7322
Gas oil .....	22873	25215	31471	29427	33097	33428	30683	31794
Fuel oil .....	15580	15245	15644	19909	23516	24862	21920	18939
Lubricants .....	330	390	000	000	000	000	000	000
Bitumen .....	2713	2100	<sup>(2)</sup> 4202	000	000	000	000	000
Liquefied gas .....	3366	4163	3922	2739	3233	3087	1880	1447
Crude lubricants .....	392	351	1668	000	000	000	000	000
Benzine solvents .....	-	12	42	000	000	000	000	000
Naphtha .....	143	2	42	000	000	000	000	000

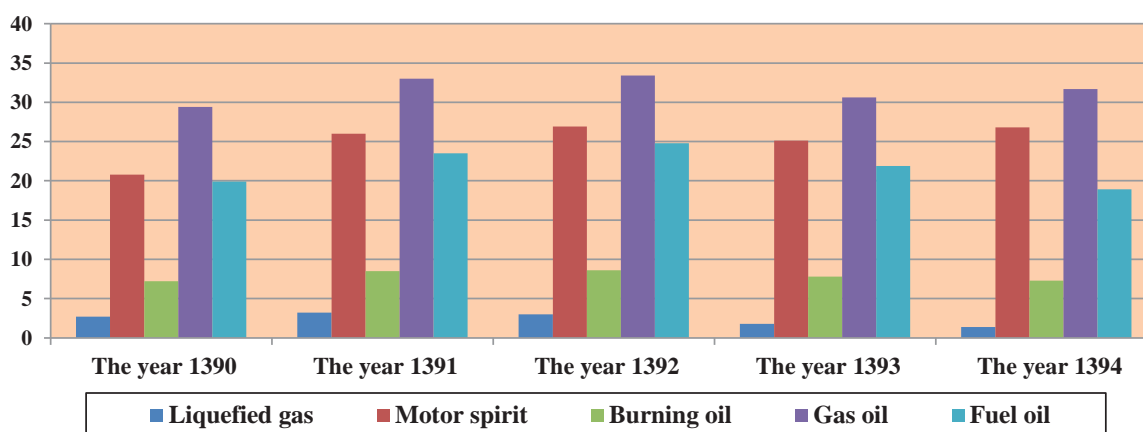
1. Including regular, super, and unleaded gasoline.

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

Sources: Ministry of Oil.

**7. 3. CONSUMPTION OF SOME OIL PRODUCTS**

Million cu / m



For data see Table 7.6.

**7. 7. CONSUMPTION OF MAJOR OIL PRODUCTS BY OSTAN, THE YEAR 1394 (cu m)**

Ostan	Motor spirit	Burning oil	Gas oil	Fuel oil	Liquefied gas
<b>Total country</b> .....	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
East Azarbayejan.....	000	000	000	000	000
West Azarbayejan .....	000	000	000	000	000
Ardebil .....	000	000	000	000	000
Esfahan .....	000	000	000	000	000
Alborz .....	000	000	000	000	000
Ilam .....	000	000	000	000	000
Bushehr .....	000	000	000	000	000
Tehran .....	000	000	000	000	000
Chaharmahal&Bakhtiari .....	000	000	000	000	000
South Khorasan .....	000	000	000	000	000
Khorasan-e-Razavi.....	000	000	000	000	000
North Khorasan .....	000	000	000	000	000
Khuzestan .....	000	000	000	000	000
Zanjan .....	000	000	000	000	000
Semnan.....	000	000	000	000	000
Sistan&Baluchestan .....	000	000	000	000	000
Fars .....	000	000	000	000	000
Qazvin .....	000	000	000	000	000
Qom .....	000	000	000	000	000
Kordestan .....	000	000	000	000	000
Kerman .....	000	000	000	000	000
Kermanshah .....	000	000	000	000	000
Kohgiluyeh&Boyerahmad .....	000	000	000	000	000
Golestan .....	000	000	000	000	000
Gilan.....	000	000	000	000	000
Lorestan.....	000	000	000	000	000
Mazandaran.....	000	000	000	000	000
Markazi .....	000	000	000	000	000
Hormozgan.....	000	000	000	000	000
Hamedan .....	000	000	000	000	000
Yazd .....	000	000	000	000	000

Source: Ministry of Oil.

**7. 8. IMPORTS OF OIL PRODUCTS BY TYPE**

(mln/lit)

Product	1375	1380	1385	1390	1391	1392	1393	1394
<b>Total .....</b>	<b>4395</b>	<b>2840</b>	<b>11897</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
Motor spirit .....	988	2840	10038	000	400	998	1451	2082
Burning oil .....	1976	0	0	0	0	0	0	0
Gas oil .....	1427	0	1858	000	0	186	122	0
Aviation spirit .....	4	0	2	000	000	000	000	000

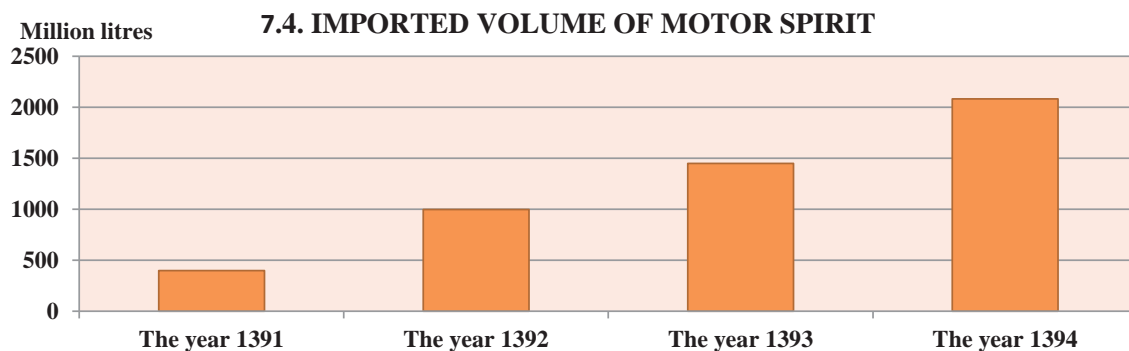
Sources: Ministry of Oil.

**7. 9. TRANSPORTED OIL PRODUCTS BY MEANS OF TRANSPORT**

(mln ton kms)

Means of transport	1375	1380	1385	1390	1391	1392	1393	1394
<b>Total .....</b>	<b>22809</b>	<b>32429</b>	<b>39185</b>	<b>34249</b>	<b>38618</b>	<b>38354</b>	<b>37192</b>	<b>34105</b>
Pipelines .....	15347	21056	25194	21854	23773	24496	22485	21359
Railway .....	1804	1977	2547	1661	2233	2557	2082	2069
Road vehicles .....	5643	7893	8995	7844	8885	7717	9565	10677
Tankers .....	<sup>(1)</sup> 15	1503	2449	2890	3727	3584	3060	000

Sources: Ministry of Oil.



For data see Table 7.8.

**7. 10. PRODUCTION OF ENRICHED GAS BY SOURCE OF PRODUCTION (mln cu m/day)**

Resource	1375	1380	1385	1390	1391	1392	1393	1394
<b>Total.....</b>	<b>234</b>	<b>312</b>	<b>464</b>	<b>631</b>	<b>622</b>	<b>635</b>	<b>682</b>	<b>718.7</b>
Associated gas.....	83	88	96	104	77	76	78	77.3
Gas cap gas.....	53	51	38	30	32	30	29	34.8
Gas of independent gas fields .....	97	172	330	497	513	528	575	606.6

Source: Ministry of Oil.

**7. 11. PRODUCTION OF SWEET GAS BY SOURCE OF PRODUCTION (mln cu m/day)**

Resource	1375	1380	1385	1390	1391	1392	1393	1394
<b>Total.....</b>	<b>166</b>	<b>257</b>	<b>364</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>
Associated gas .....	32	37	41	000	000	000	000	000
Gas cap gas.....	45	49	30	000	000	000	000	000
Gas of independent gas fields .....	89	171	293	000	000	000	000	000

Sources: Ministry of Oil.

**7. 12. CONSUMPTION OF NATURAL GAS (mln cu m)**

Description	1375	1380	1385	1390	1391	1392	1393	1394
Flared gas .....	12737	000	15851	000	000	000	000	000
Gas delivered to National Iranian Gas Company <sup>(1)</sup> .....	43220	66007	117256	000	000	000	000	000
Gas injection .....	21404	27521	26663	000	000	000	000	000

1. Gas delivered by National Iranian Gas Company includes extraction of ethane and liquefied gas.

Source: Ministry of Oil.

### 7. 13. CITIES SUPPLIED 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 <sup>(1)</sup>		being supplied with piped gas <sup>(3)</sup>
	Number <sup>(2)</sup>	Number of household	
1375 .....	223	000	69
1380 .....	400	000	79
1385 .....	615	11457949	82
1390 .....	966	000	000
1391 .....	996	000	000
1392 .....	1020	000	000
1393 .....	1038	000	46
<b>1394 .....</b>	<b>1063</b>	<b>19602000</b>	<b>50</b>
East Azarbayejan.....	62	1216605	0
West Azarbayejan .....	34	728621	2
Ardebil .....	26	279195	0
Esfahan.....	103	1703895	0
Alborz .....	16	993585	1
Ilam .....	21	91392	3
Bushehr .....	33	93159	0
Tehran .....	45	5017424	0
Chaharmahal&Bakhtiyari .....	38	185150	0
South Khorasan .....	17	134179	7
Khorasan-e-Razavi.....	69	1624440	3
North Khorasan .....	21	174374	0
Khuzestan.....	74	876440	1
Zanjan .....	20	283122	0
Semnan.....	20	247413	0
Sistan&Baluchestan .....	1	8470	4
Fars .....	84	1075206	8
Qazvin .....	22	276573	2
Qom .....	6	303330	0
Kordestan .....	28	271908	0
Kerman.....	43	381234	8
Kermanshah .....	25	431173	2
Kohgiluyeh&Boyerahmad .....	15	117376	2
Golestan .....	29	315228	0
Gilan .....	51	557597	0
Lorestan.....	23	341806	0
Mazandaran.....	50	749291	5
Markazi .....	35	317444	1
Hormozgan.....	4	8574	1
Hamedan .....	29	409202	0
Yazd .....	19	388594	0

1. Including all cities parts of which are gas consumers.

2. The number of cities are based on the definitions given by the Ministry of Oil.

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

Sources: Ministry of Oil,

#### 7.14. VILLAGES SUPPLIED 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 <sup>(1)</sup>		Villages being supplied with piped gas <sup>(3)</sup>
	Number <sup>(2)</sup>	Number of household	
1375.....	000	000	000
1380.....	000	000	000
1385.....	4199	000	2250
1390.....	12205	000	000
1391.....	14114	000	000
1392.....	15874	000	000
1393.....	17522	000	5024
<b>1394.....</b>	<b>20408</b>	<b>4000308</b>	<b>5514</b>
East Azarbayejan.....	1486	322444	272
West Azarbayejan.....	467	110336	338
Ardebil.....	702	85011	423
Esfahan.....	1292	239995	12
Alborz.....	120	70234	1
Ilam.....	198	22975	145
Bushehr.....	196	20433	172
Tehran.....	458	267518	34
Chaharmahal&Bakhtiyari.....	420	95891	42
South Khorasan.....	132	35359	99
Khorasan-e-Razavi.....	1260	359898	735
North Khorasan.....	453	76701	215
Khuzestan.....	1501	188530	142
Zanjan.....	320	57577	208
Semnan.....	189	39796	47
Sistan&Baluchestan.....	3	208	17
Fars.....	1014	174681	522
Qazvin.....	310	69705	62
Qom.....	112	22062	4
Kordestan.....	997	96240	61
Kerman.....	684	92512	229
Kermanshah.....	533	61098	544
Kohgiluyeh&Boyerahmad.....	514	41102	97
Golestan.....	752	189952	81
Gilan.....	1713	295611	390
Lorestan.....	761	96988	251
Mazandaran.....	1757	527904	147
Markazi.....	889	113129	65
Hormozgan.....	6	192	12
Hamedan.....	933	189042	58
Yazd.....	236	37184	89

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

2. The number of cities are based on definitions given by the Ministry of Oil.

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

Source: Ministry of Oil.

**7. 15. NUMBER OF GAS EXTENSIONS<sup>(1)</sup>, NATURAL GAS CONSUMERS BY TYPE AND CONSUMPTION OF NATURAL GAS 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	
1375.....	2420738	2905678	2811331	92863	1484	000
1380.....	3719086	5025658	4828282	194078	3298	000
1385.....	6170548	9292175	8839347	439264	13564	100588
1390.....	8516839	14717210	000	000	000	144519
1391.....	8976941	16136287	000	000	000	142367
1392.....	9431324	17508187	000	000	000	145538
1393.....	9818230	18771822	17586332	1112590	72900	163558
<b>1394.....</b>	<b>10295219</b>	<b>20066718</b>	<b>18776808</b>	<b>1208313</b>	<b>81597</b>	<b>171767</b>
East Azarbayejan.....	599207	1390645	1237037	146544	7064	7807
West Azarbayejan.....	345994	769079	697722	70517	840	4619
Ardebil.....	201773	404132	371973	30923	1236	1977
Esfahan.....	1016018	1636647	1550098	77071	9478	19735
Alborz.....	258681	723189	671133	48958	3098	4818
Ilam.....	80675	113542	109694	3525	323	507
Bushehr.....	136073	109951	108062	1544	345	11052
Tehran.....	1224949	2937963	2708935	218932	10096	22043
Chaharmahal&Bakhtiari.....	170361	277942	259573	17328	1041	1098
South Khorasan.....	89957	176881	167864	8749	268	1291
Khorasan-e-Razavi.....	805488	1965492	1835475	118684	11333	10960
North Khorasan.....	134535	245594	227498	17614	482	2654
Khuzestan.....	602840	877697	857569	19570	558	15259
Zanjan.....	155019	278737	259156	18627	954	1942
Semnan.....	129591	256188	234906	19157	2125	1892
Sistan&Baluchestan.....	9575	8683	8538	145	0	587
Fars.....	664161	1198100	1140643	52052	5405	10467
Qazvin.....	175786	361661	335045	24323	2293	4283
Qom.....	162676	353705	338978	12904	1823	2275
Kordestan.....	233882	433682	407163	24810	1709	2801
Kerman.....	315815	506833	488317	17986	530	5081
Kermanshah.....	220489	486727	462404	22457	1866	3383
Kohgiluyeh&Boyerahmad.....	99270	142022	137005	4613	404	455
Golestan.....	262298	491548	471060	18950	1538	2306
Gilan.....	501882	863607	805672	54894	3041	5835
Lorestan.....	215831	459594	440416	18512	666	1443
Mazandaran.....	694997	1175742	1110851	58941	5950	6111
Markazi.....	273574	503920	469439	30256	4225	5737
Hormozgan.....	7319	6580	6229	190	161	5329
Hamedan.....	304049	543267	512633	29570	1064	2564
Yazd.....	202454	367368	345720	19967	1681	5458

1. Including extensions not yet utilized.

Source: Ministry of Oil.

**7. 16. LIQUEFIED GAS DELIVERED BY REFINERIES FOR DISTRIBUTION (1000 tons)**

Year	Total	Abadan	Arak	Esfahan	Bandar Abbas	Tabriz	Tehran	Shiraz	Kermanshah	Reservation centres <sup>(1)</sup>
1375.....	1829	312	173	492	×	130	257	47	28	389
1380.....	1395	310	175	442	235	134	23	49	26	0
1385.....	1489	295	189	392	201	101	234	54	23	0
1390 <sup>(1)</sup> .....	1871	438	231	452	241	119	287	58	21	0
1391 <sup>(1)</sup> .....	1828	363	277	427	254	120	302	53	17	0
1392 <sup>(1)</sup> .....	1988	273	542	399	273	116	304	56	17	0
1393 <sup>(1)</sup> .....	2042	293	599	403	282	94	295	50	20	0
<b>1394<sup>(1)</sup>.....</b>	<b>2182</b>	<b>425</b>	<b>550</b>	<b>449</b>	<b>256</b>	<b>114</b>	<b>296</b>	<b>49</b>	<b>14</b>	<b>0</b>

1. Including total delivery of liquefied gas for Lavan Refinery.

Source: Ministry of Oil.

**7. 17. TOTAL PRODUCTION<sup>(1)</sup> OF NATIONAL PETROCHEMICAL COMPANY BY MAIN CATEGORIES (1000 tons)**

Category	1375	1380	1385	1390	1391	1392	1393	1394
<b>Total .....</b>	<b>10007</b>	<b>12543</b>	<b><sup>(2)</sup>18000</b>	<b>42736</b>	<b>41063</b>	<b>40574</b>	<b>44511</b>	<b>46408</b>
Polymers .....	594	780	1396	4182	4637	4923	5325	5708
Chemicals.....	2262	3070	5178	13779	12933	13097	14782	15458
Aromatics .....	407	1032	1241	3283	3323	3390	3086	2825
Hydrocarbons .....	2293	2911	5787	12837	11734	11471	12622	13680
Fertilizers, pesticides and related materials .....	4451	4750	4398	8655	8436	7693	8696	8737

1. Including internal consumption of petrochemical complexes.

2. Including existing complexes and three entrusted complexes, Arak, Esfahan and Khark.

Source: Ministry of Oil.



**7. 18. QUANTITY AND VALUE OF NPC'S DOMESTIC SALES BY MAIN CATEGORIES**  
(1000 tons; blnrrials)

Category	1375		1380		1385		1390	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Total.....</b>	<b>3140</b>	<b>2117</b>	<b>4180</b>	<b>6053</b>	<sup>(1)</sup> <b>6066</b>	<sup>(1)</sup> <b>26520</b>	<b>11858</b>	<b>111244</b>
Polymers.....	434	1029	741	3300	1063	9681	2271	38568
Chemicals.....	389	394	580	1016	1018	5033	3368	29981
Aromatics .....	95	114	248	512	497	4539	1035	13183
Hydrocarbons .....	425	136	501	316	1554	6003	4072	25654
Fertilizers, pesticides and related materials .....	1797	444	2110	909	1934	1264	1112	3858

Category	1391		1392		1393		1394	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Total.....</b>	<b>13273</b>	<b>174777</b>	<b>14524.8</b>	<b>313766.0</b>	<b>16332.3</b>	<b>333488.5</b>	<b>13420</b>	<b>231178</b>
Polymers.....	2424	65633.2	2610	97330.5	2654.7	108964.0	2450	87832
Chemicals.....	3642	38978.4	703.9	22308.0	4400.4	79551.0	4090	69279
Aromatics .....	1003	19626.3	3620	72306.7	1175.9	35567.1	940	19979
Hydrocarbons .....	4277	43364.8	5734.6	111215.0	5831.3	92847.4	3820	38539
Fertilizers, pesticides and related materials .....	1927	7174.5	1856.3	10605.0	2269.9	16559.0	2120	15548

1. Including existing complexes and three entrusted complexes, Arak, Esfahan and Khark.

Source: Ministry of Oil.

## 7. 19. QUANTITY AND VALUE OF NPC'S EXPORTS BY MAIN CATEGORIES

(1000 tons; mln dollars)

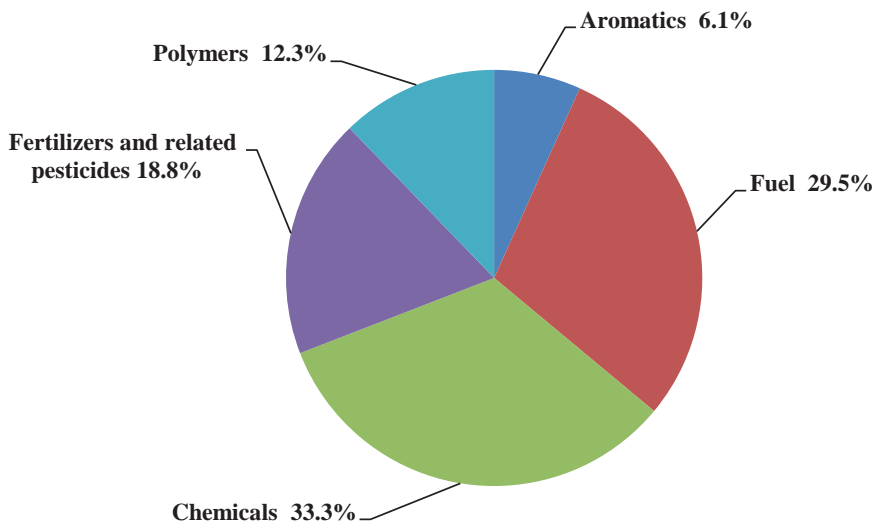
Category	1375		1380		1385		1390	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Total</b> .....	<b>2656</b>	<b>507</b>	<b>4011</b>	<b>795</b>	<sup>(1)</sup> <b>6044</b>	<sup>(1)</sup> <b>3299</b>	<b>18193</b>	<b>14662.4</b>
Polymers .....	128	70	142	73	360	429	1638	2546.9
Chemicals.....	332	93	651	118	1687	774	5567	3508.3
Aromatics .....	175	48	385	117	440	454	536	773.4
Hydrocarbons .....	1255	235	2010	442	3010	1545	6452	6241.7
Fertilizers, pesticides and related materials .....	766	61	823	45	547	97	4000	1592.1

Category	1391		1392		1393		1394	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Total</b> .....	<b>15757</b>	<b>12061.3</b>	<b>12827.0</b>	<b>9869.1</b>	<b>15886.0</b>	<b>10273.0</b>	<b>18660</b>	<b>9400</b>
Polymers .....	1937	2498.9	2488.0	3509.1	2511.1	3293.4	2594	3340
Chemicals.....	4357	2138.4	3727.3	2046.0	5008.6	1991.7	5724	2050
Aromatics .....	270	389.1	247.0	341.0	952.1	1111.5	1164	910
Hydrocarbons .....	5432	5183.9	3180.0	2942.0	3785.1	2646.3	5324	2020
Fertilizers, pesticides and related materials .....	3761	1851.0	3185.0	1031.0	3629.0	1230.1	3854	1080

1. Including existing complexes and three entrusted complexes, Arak, Esfahan and Khark.

Source: Ministry of Oil.

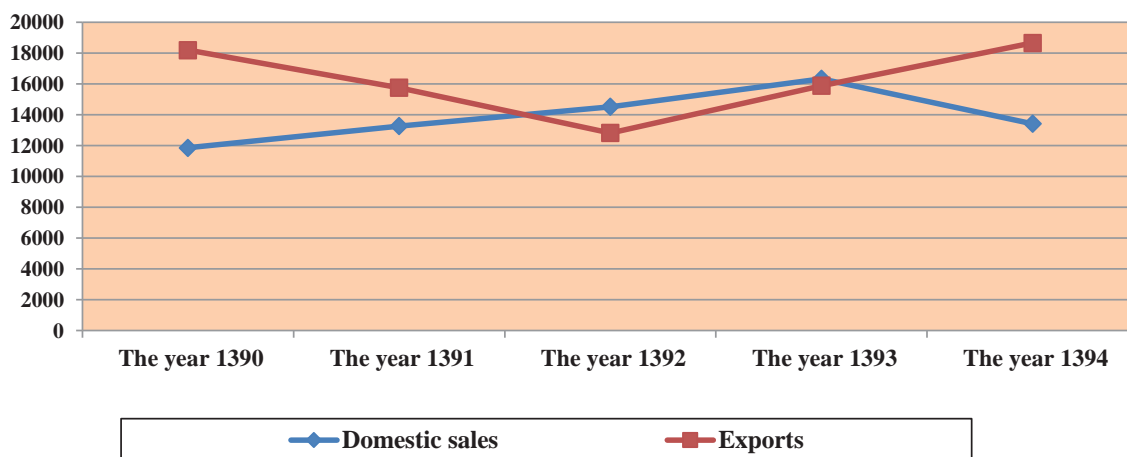
**7.5. TOTAL PRODUCTION OF NATIONAL PETROCHEMICAL COMPANY BY MAIN CATEGORIES OF PRODUCTS, THE YEAR 1394**



For data see Table 7.17.

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

Thousand tons



For data see Tables 7.18. & 7.19.

