

Oil Market Report

14 September 2022

- Growth in global oil demand continues to decelerate, weighed down by renewed Chinese lockdowns and an ongoing slowdown in the OECD. This is partly offset by large-scale switching from gas to oil, estimated to average 700 kb/d during 4Q22 and 1Q23, double the level of a year ago. World oil demand is forecast to rise by 2 mb/d in 2022 and 2.1 mb/d in 2023, marginally lower than in last month's *Report*.
- World oil production rose 790 kb/d in August to 101.3 mb/d, with a strong recovery in Libya and smaller gains from Saudi Arabia and the UAE offset by losses in Nigeria, Kazakhstan and Russia. From August through December, growth is forecast to slow, edging up by just 280 kb/d to 101.6 mb/d. In 2022, global production is forecast to rise by 4.8 mb/d, to 100.1 mb/d, and by 1.7 mb/d in 2023 to 101.8 mb/d.
- Persistent demand weakness in China considerably slowed the pace of a summer ramp-up in refining activity. After reaching a post-Covid peak in August of 81.4 mb/d, refinery throughputs are expected to fall in September-October on seasonal maintenance. With lower runs, refined product inventories are now unlikely to see any substantial builds for the remainder of the year.
- Russian total oil exports rose by 220 kb/d in August to 7.6 mb/d, down 390 kb/d from pre-war levels. Estimated export revenues fell by \$1.2 bn to \$17.7 bn. Russian crude oil imports into the EU/UK have fallen by 880 kb/d since the start of the year to 1.7 mb/d, while imports from the US have risen by 400 kb/d to 1.6 mb/d. Iraq, Norway, Guyana and Saudi Arabia have also increased shipments to the EU.
- Global observed inventories fell by 25.6 mb in July on a drawdown in crude stocks in China and oil on the water as well as from IEA government stocks. OECD industry stocks rose by 43.1 mb to 2 705 mb, narrowing the deficit versus the five-year average to 274.9 mb. IEA member countries released nearly 180 mb of public stocks from March through August, with over 50 mb to be delivered through October.
- Brent futures lost \$34/bbl and backwardation fell 65% in just three months following a June peak, reflecting a seasonal slowdown in refinery purchases and increased supplies, as well as escalating concerns about the world economy. Growing pessimism about an Iran deal offered some support to prices that saw Brent recover to over \$93/bbl at the time of writing. Freight rates remain stubbornly high.

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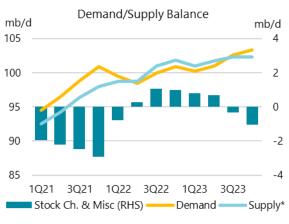
Balancing act

Brent crude oil futures slipped below \$90/bbl in early September, the lowest level since January and more than \$34/bbl below a June peak. This is the largest 90-day decline since March-April 2020 and is only exceeded prior to 2020 by market routs in 2014-15 and 2008-09. Yet, diesel and jet fuel markets remain exceptionally tight, as reflected in current pricing.

For now, a deteriorating economic environment and recurring Covid lockdowns in China continue to weigh on market sentiment. Nevertheless, world oil demand is forecast to grow by 2 mb/d in 2022

and 2.1 mb/d next year. Jet fuel dominates growth, while road transport demand wanes. Robust oil use for power generation in the Middle East and in Europe due to record natural gas and electricity prices is providing additional support.

At the same time, more oil is hitting the market. IEA member countries released nearly 180 mb of government stocks from March through August, with a further 52 mb scheduled for the next two months. Moreover, world oil supply increased by 790 kb/d in August to 101.3 mb/d – up more



* Assumes OPEC+ unwinds cuts. Iran remains under sanctions.

than 5 mb/d on a year ago. Russian oil production and exports have proved resilient, with August levels only 400-450 kb/d below pre-war levels. Despite a 2 mb/d drop in Russian crude and oil products shipments to Europe, the US, Japan and Korea since the start of the year, the rerouting of flows to India, China, Türkiye and others has mitigated upstream losses.

However, the EU embargo on Russian crude oil and product imports that comes into effect in December 2022 and February 2023, respectively, is expected to result in deeper declines. An additional 1 mb/d of products and 1.4 mb/d of crude will have to find new homes. An EU ban on maritime services may force further reallocations from third countries not agreeing to the proposed G7 price cap. Russian total oil production is forecast to decline to 9.5 mb/d by February 2023, a 1.9 mb/d drop compared to February 2022.

Such losses would still leave the market oversupplied in 2H22, by close to 1 mb/d, and roughly balanced in 2023. But product markets, especially diesel, are expected to remain in deficit due to downstream capacity constraints outside of China. Global diesel markets have tightened this year, with demand robust and as lower Chinese export quotas have sharply reduced its sales abroad. More recently, newly introduced taxes in India have discouraged exports from Asia's largest supplier.

The EU has so far largely maintained Russian diesel import volumes at around 600 kb/d, but from next February these volumes will need to be replaced by other sources. Three large refinery projects in Kuwait, Nigeria and Mexico coming online by the end of 2023 will eventually increase global diesel availability. The proposed price cap mechanism would also need to work in order to assure overall diesel supply for the global market is met and so that European importers can switch to flows from the US, Middle East and India. Failing that, and assuming Russia will not be able to ship diesel in significant quantities outside the price cap, European, Latin American and African importers could be competing for a rather smaller pool of available flows.

Demand

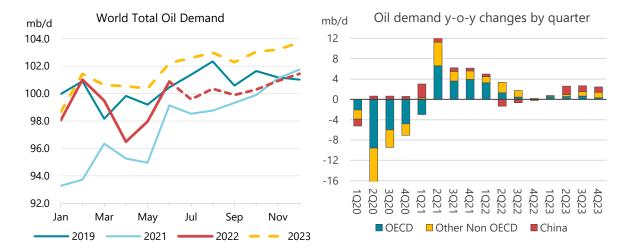
Overview

China's slide undercuts resilience elsewhere

Global oil demand remains under pressure from the faltering Chinese economy and an ongoing slowdown in OECD economies. Growth continues to lose momentum, slowing from 3.5 mb/d in 1H22 to only 1.1 mb/d in 3Q22 before grinding to a halt in 4Q22.

For 2022 as a whole, global oil demand will climb by 2 mb/d, reaching 99.7 mb/d, before advancing by another 2.1 mb/d next year to exceed pre-pandemic levels at 101.8 kb/d. In 2022, the OECD will account for most of the total rise, while non-OECD countries will cover three-quarters of 2023's gains if China reopens as expected.

We have revised our 2022 outlook for growth down by a modest 110 kb/d compared with last month's *Report*. Tightening lockdowns and revisions to official Chinese statistics (-350 kb/d) narrowly outweigh gains from stronger US data (+140 kb/d) and a further spike in Middle Eastern demand (+90 kb/d) from increased oil use in power generation.



The macro-economic climate continued to deteriorate in August, with runaway inflation weighing on consumer and business sentiment across the globe. The general malaise was reflected in manufacturing PMIs that declined in the US, Europe, Japan and China during August. Central banks, now decidedly in a hawkish mode, are finding their policies aimed at bringing down inflation complicated by ongoing exceptional strength in labour markets that is supporting consumer spending. Growing expectations that high energy costs, especially for gas, and rising interest rates will eventually bring demand destruction are darkening the global outlook. The consensus GDP forecast for 2023 is now around 2.6%, a full point lower than in January.

Chinese July deliveries were estimated to be 890 kb/d below forecast and year-to-date refinery throughputs were revised lower by the National Bureau of Statistics (NBS). Rolling lockdowns restricting activity resulted in strikingly poor recent economic data. Fiscal and monetary stimulus measures and a softer renminbi are unlikely to counterbalance these headwinds.

In contrast, June deliveries in other regions were unexpectedly robust despite a gloomy economic climate and record fuel prices. However, the latter's subsequent drop is beginning to support demand according to early indicators. The cost of a tank of gasoline in the US has now fallen ~25% from June highs and is buttressing petrol sales at the tail end of the driving season. Mexico and the Middle East were the other main pillars of demand strength.

		Globa	l Demand	by Regio	n				
		(tł	nousand barrel	s per day)					
		[Demand		Annual Ch	ng (kb/d)	Annual Chg (%)		
	2020	2021	2022	2023	2022	2023	2022	2023	
Africa	3 766	3 991	4 102	4 083	111	- 19	2.8	-0.5	
Americas	27 920	30 287	31 070	31 315	783	246	2.6	0.8	
Asia/Pacific	34 085	36 187	36 366	38 151	179	1 785	0.5	4.9	
Europe	13 136	13 904	14 393	14 521	489	128	3.5	0.9	
FSU	4 559	4 848	4 752	4 651	- 95	- 101	-2.0	-2.1	
Middle East	8 075	8 480	9 006	9 086	526	80	6.2	0.9	
World	91 541	97 697	99 689	101 807	1 992	2 119	2.0	2.1	
OECD	42 049	44 848	46 068	46 572	1 220	505	2.7	1.1	
Non-OECD	49 491	52 849	53 621	55 235	772	1 614	1.5	3.0	

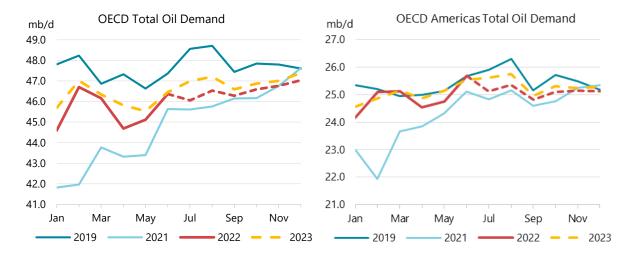
Heightened concerns over natural gas availability this winter with Russia escalating its disruption of flows to Europe ahead of tougher EU sanctions have led us to raise our forecast of incremental oil use in power generation and from gas-to-oil switching. Globally, we now expect additional demand of about 700 kb/d during 4Q22 and 1Q23 compared with the normal seasonal trend, an increase of 100-150 kb/d since last month's *Report*. This will be concentrated in Europe (400-500 kb/d) and to a lesser extent in Asia – primarily utilising gasoil, fuel oil and refinery gas.

Amid tight middle distillate markets, net demand growth for gasoil and jet/kerosene will be largely steady at 1.9% during 2H22, rising by 640 kb/d year-on-year (y-o-y) to 34.5 mb/d. This serene pace disguises substantial changes in distribution between products. For the OECD, where we have access to more segmented statistics, diesel demand is set to tumble by 3.4% (-340 kb/d) y-o-y in 2H22 due to the cooling economy. However, a 2.6% (+100 kb/d) increase in non-road gasoil demand and a 16.4% (+550 kb/d) surge in jet/kerosene demand will more than counter this, maintaining the level of overall deliveries.

			Demand	-	ct			
			Demand		A nnual Ch	ng (kb/d)	A nnual (Chg (%)
	2020	2021	2022	2023	2022	2023	2022	2023
LPG & Ethane	13 128	13 839	14 390	14 679	551	289	4.0	2.0
Naphtha	6 434	6 982	6 810	7 120	- 172	310	-2.5	4.6
Motor Gasoline	23 647	25 625	25 904	26 2 4 5	279	341	1.1	1.3
Jet Fuel & Kerosene	4 709	5 191	6 110	6 962	919	852	17.7	13.9
Gas/Diesel Oil	26 120	27 670	28 051	28 071	381	20	1.4	0.1
Residual Fuel Oil	5 624	6 159	6 437	6 665	278	228	4.5	3.5
Other Products	11 879	12 231	11 987	12 066	- 244	79	-2.0	0.7
Total Products	91 541	97 697	99 6 8 9	101 807	1 992	2 119	2.0	2.1

OECD

OECD oil demand growth continued to slow the latest available data show. June posted a y-o-y increase of 730 kb/d, far below the average of 2.6 mb/d for January-May 2022. Based on preliminary data, we expect average growth of 450 kb/d in 3Q22 and a contraction of 50 kb/d in 4Q22. As the



macro-economic environment worsens, this slowdown will last into 2023 with an annual average increase of 500 kb/d.

The 2022 increase of 1.2 mb/d, to 46.1 mb/d, will be dominated by the Americas (+670 kb/d) and Europe (+480 kb/d), with Asia Oceania much flatter (+80 kb/d). In part, this is an outcome of neighbouring China's wave of lockdowns with flight restrictions and anaemic petrochemical demand holding back advances in the region. Increased gas-to-oil switching in Europe this winter will cushion the impact of the continent's economic slowdown on oil demand.

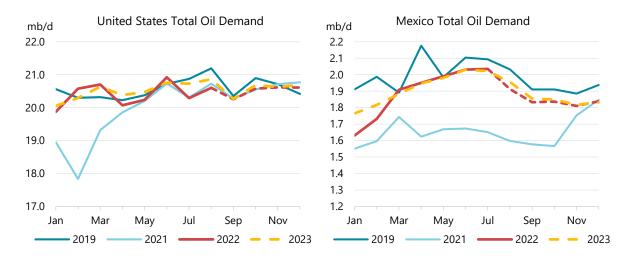
	0	ecd d	Demano	lbase	d on A	djuste	d Preli	minar	y Subr	nissio	ns - Ju	ly 2022	2			
						(million	barrels pe	r day)								
	Gaso	line	Jet/Ker	osene	Dies	sel	Other (Gasoil	LPG/Et	hane	RFO		Other		Total Products	
	m b/d	% pa	mb/d	% pa	m b/d	% pa	m b/d	% pa	m b/d	% pa	m b/d	% pa	mb/d	% pa	mb/d	% pa
OECD Americas	10.44	-4.5	1.93	11.8	3.32	9.0	1.74	1.9	3.82	6.6	0.58	-1.8	3.28	1.2	25.11	1.1
US*	8.76	-6.1	1.65	8.4	2.45	5.0	1.38	0.9	2.96	8.6	0.36	-7.7	2.74	3.3	20.29	-0.1
Canada	0.82	-6.2	0.16	46.6	0.25	-5.1	0.29	-0.4	0.49	-3.1	0.03	80.6	0.37	-9.1	2.41	-2.3
Mexico	0.79	21.7	0.09	28.1	0.44	76.4	0.06	46.2	0.32	6.2	0.17	1.7	0.16	-4.2	2.03	23.3
OECD Europe	2.13	-4.3	1.44	50.4	5.03	-5.5	1.19	9.7	1.04	-14.5	0.91	16.3	2.04	-6.8	13.76	0.0
Germany	0.47	-1.0	0.22	48.7	0.68	-12.5	0.29	35.2	0.10	-9.7	0.05	-4.8	0.33	-7.5	2.14	0.2
United Kingdom	0.26	-1.5	0.28	135.6	0.46	-0.1	0.15	11.6	0.12	4.3	0.02	42.4	0.12	3.8	1.41	15.5
France	0.25	-0.6	0.14	37.4	0.73	-7.4	0.07	-9.2	0.11	-8.9	0.04	2.2	0.26	4.5	1.61	-1.7
Italy	0.21	-2.1	0.14	60.5	0.51	-2.7	0.07	-3.3	0.09	-2.6	0.11	4.7	0.17	-15.4	1.29	0.1
Spain	0.14	-7.2	0.15	53.8	0.46	-6.1	0.16	1.2	0.06	32.2	0.15	39.3	0.18	-8.9	1.30	4.4
OECD Asia & Oceania	1.43	5.8	0.49	19.9	1.43	1.3	0.45	9.5	0.73	-3.4	0.46	5.7	2.20	-2.2	7.18	2.4
Japan	0.76	0.7	0.22	5.5	0.47	11.6	0.32	14.8	0.34	-5.6	0.23	-7.2	0.84	-1.4	3.17	1.8
Korea	0.27	15.5	0.12	13.6	0.40	-2.4	0.07	-12.1	0.32	-2.0	0.20	19.2	1.19	-2.8	2.57	0.9
Australia	0.27	18.3	0.12	91.0	0.51	-1.3	-	-	0.05	0.3	0.01	81.6	0.10	-6.4	1.06	9.5
OECD Total	14.00	-3.5	3.86	24.8	9.77	0.0	3.38	5.5	5.58	0.6	1.95	7.8	7.52	-2.1	46.06	1.0

* Including US territories

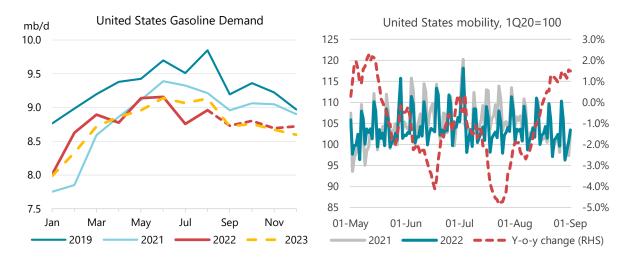
OECD Americas deliveries lagging but outlook improves

Projected 3Q22 growth will slow to 240 kb/d for OECD Americas, bringing deliveries to 25.1 mb/d. Mexico is likely to be the only country posting y-o-y gains for the quarter (+320 kb/d) with the US (-50 kb/d) and Canada (-20 kb/d) both beginning to decline. For 2022 as a whole, the increase in demand will hit 670 kb/d before easing to 190 kb/d in 2023.

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US deliveries for June showed limited overall y-o-y growth (+190 kb/d), with the continuing rebound of jet/kerosene (+280 kb/d) and higher LPG/ethane use (+160 kb/d) following the construction of new petrochemical facilities masking weaker gasoline deliveries (-230 kb/d y-o-y). Even so, final June data outperformed preliminary indications for gasoil, gasoline and jet/kerosene. As a result, we have raised our expectations for July and August. US demand is still forecast to contract y-o-y in both July (-20 kb/d) and August (-120 kb/d) amid a major slowdown in gasoline (-570 kb/d and -250 kb/d, respectively). This slump aligns with mobility indicators which fell in July before staging a partial recovery in August. The data show that this year's summer driving season demand peak appears to have been almost non-existent amid very high consumer gasoline prices, although conditions eased slightly as prices began to decline.

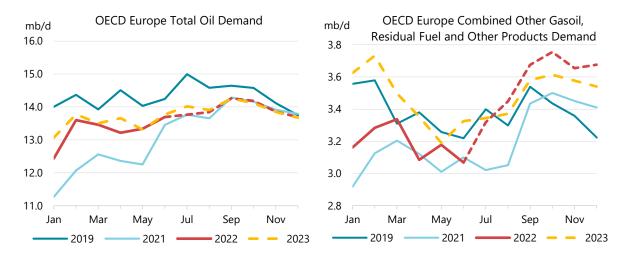


Measures of US sentiment indicate a considerable deterioration, with the OECD consumer confidence index (CCI) declining continuously in the country since April 2021 and the S&P Global US Manufacturing Purchasing Managers' Index (PMI) sliding to 51.5, the slowest rate of expansion since July 2020. However, July consumer spending continued to rise (+0.1%) according to US Commerce Department data and Bureau of Labour Statistics (BLS) data shows sustained additions to jobs, underscoring the buoyant labour market. The total number of jobs exceeded pre-pandemic levels for the first time in July. Combined with a partial relaxation of prices, we expect this to limit the fall in gasoline demand to an average of 310 kb/d in 2H22.

OECD Europe demand slowing despite fuel switching

Growth in European deliveries dwindled in June (+240 kb/d y-o-y) before demand returned to 2021 levels in July. Much lower July figures for petrochemical feedstocks (naphtha -210 kb/d, LPG -180 kb/d) and diesel (-290 kb/d) highlight the difficulties being experienced by industrial consumers. These negatives comfortably outweigh estimated increases of 130 kb/d for fuel oil and 110 kb/d for other gasoil. Overall, the impacts of higher energy costs and weaker economic prospects are strongly bearish for oil demand.

Demand in 2022 is set to climb by 480 kb/d, to 13.6 mb/d, with the increase dominated by jet/kerosene (+380 kb/d). In 2023 demand will edge higher, by 130 kb/d with jet/kerosene alone accounting for almost this much, as flight numbers close in on pre-pandemic levels. Consumption in aviation continues to perform strongly. So far, the sector's recovery has seemingly been immune to rising prices, supply constraints and the wider economic slowdown.



The probability of widespread gas-to-oil switching and oil use for power generation continues to play an important role in our European balances from now until at least the end of 2023. In this month's *Report* we have increased our expectations for total incremental demand related to substitution to about 400-500 kb/d in Europe during 4Q22 and 1Q23, roughly 100 kb/d higher than last month's estimate. This extra consumption will be divided between non-road gasoil (250-300 kb/d), fuel oil (100-150 kb/d) and extra refinery fuels (captured in other products, 50-100 kb/d). Compared with the same period in 2021-22, we expect demand to rise by an average of about 300 kb/d.

Several major industrial consumers, especially in Germany, have announced contingency plans for switching from gas to oil, as required, to maintain their operations. These range from refiners, and chemical producers (such as Shell, BASF and Evonik) to various manufacturers (including Michelin, Saint Gobain and Carl Zeiss) and municipalities (the city of Munich has reactivated oil fuelled boilers). Many of these applications are for heat or steam production, where relative efficiency is less of an obstacle than for power generation and typically plan to use gasoil, fuel oil or LPG. While a deepening of Europe's gas crisis would likely add to oil use, it could also serve to destroy demand in comparable quantities by disrupting industry and reducing chemical plant operations, limiting any overall upside. Reportedly, gas costs are already making operations at a number of glass manufacturers and European petrochemical plants uneconomical, particularly in energy intensive value chains such as styrenics. With falling oil prices, some companies and institutions have apparently begun running diesel back-up generating units on an ongoing basis to reduce their offtake of expensive electricity from the grid.

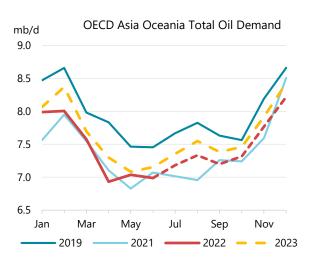
Germany, for which we have already received July data, is emblematic of these wider European tensions. July demand declined by 40 kb/d m-o-m, in contrast to the typical increase of 70 kb/d. Petrochemical feedstocks fell more quickly than expected based on known outages (naphtha slumped by 70 kb/d m-o-m to 37% below February's peak), indicating that some producers were forced to cut rates amid weak demand, high gas costs and the very low water levels of the river Rhine. Gasoline and diesel (each -40 kb/d m-o-m) consumption likely suffered from the success of a national scheme offering heavily discounted rail travel, while diesel was further impacted by the travails of manufacturers. The *S&P Global/BME Germany Manufacturing PMI* already indicated a contraction in July of 49.3 which deteriorated further to 49.1 in August as the slowdown deepened in Europe's largest economy. In addition, prompt *Federal Statistics Office* data shows that road freight has consistently lost ground since February, with rail the main beneficiary, indicating that high diesel prices are helping to reshape industrial supply chains. In contrast German gasoil demand was boosted by a 60 kb/d m-o-m rise in non-road gasoil deliveries (+70 kb/d y-o-y), a likely harbinger of sustained y-o-y gains until mid-2023.

OECD Asia Oceania oil use steady in July

In OECD Asia Oceania, demand gained ground in July, increasing y-o-y for every major product except LPG, for a total rise of 170 kb/d (+190 kb/d m-o-m). Gasoil (+60 kb/d y-o-y) rose in Japan (+90 kb/d y-o-y) but remained subdued in Korea (-20 kb/d y-o-y) despite the end of a truckers strike in June. In contrast, Korean demand for naphtha, the country's largest product by volume, recovered following two months of lower deliveries as steam cracker operations improved.

Regional oil use is expected to remain close to 2021 levels through 2H22, rising y-o-y by an average of 70 kb/d, before increasing by a further 180 kb/d in 2023. Global economic challenges continue to sap demand increases. In addition to the renewed slowdown in neighbouring China, PMIs for both Korea and Japan indicate cooling activity and sliding exchange rates have amplified the impact of high global prices on consumers. The yen's fall has been especially precipitous, reaching a 24-year low against the US dollar in early August. The anticipated gradual reopening of Chinese society and businesses should support some uplift in consumption across east Asia next year and OECD Asia growth will be concentrated in Japan (+90 kb/d) and Korea (+80 kb/d).

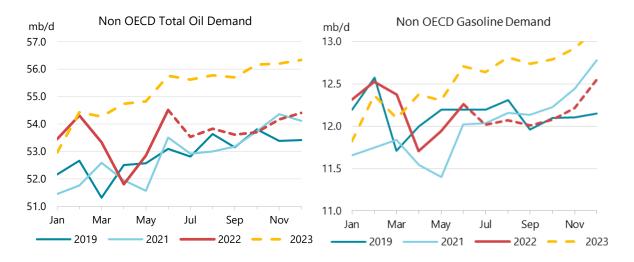
Final June data for Japanese fuel oil demand shows a 30 kb/d m-o-m rise, as power operators responded to exceptionally high use during the nation's extreme early-summer heatwave. We have slightly increased our expectations for fuel oil consumption for the rest of the year, reflecting the accelerating global shift from gas-to-oil. Direct crude use was largely unchanged. We expect roughly 100-150 kb/d of gas-to-oil substitution in the region this winter (4Q22 and 1Q23), an increase of 50 kb/d from a year earlier.



Non-OECD

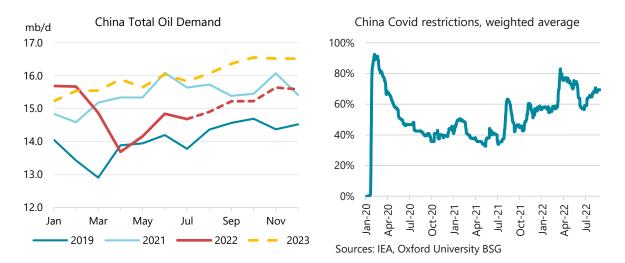
Non-OECD demand fell by 980 kb/d m-o-m in July, reversing June's strength. Around half of this decline was attributable to seasonal weakness. Additionally, China's demand recovery lost steam as lockdowns spread, while soft deliveries in weather-afflicted Pakistan added to the bearish climate.

Middle Eastern crude burn for power generation partially offset losses elsewhere. In light of the more subdued demand picture, we have reduced our outlook for 2022 by 250 kb/d to 53.6 mb/d (+770 kb/d y-o-y) and for 2023 by 130 kb/d to 55.2 mb/d (+1.6 mb/d y-o-y).



Chinese demand plunges as lockdowns gather pace

China's apparent demand fell by 160 kb/d m-o-m in July (-960 kb/d y-o-y), after refinery output, as reported by China's National Bureau of Statistics, dropped by 6.3% m-o-m in July to a two-year low. Combined with lower net refined product imports (which fell 33% m-o-m in July) and assumed product stock draws, this makes for a significant deterioration in domestic demand, to 14.7 mb/d or 890 kb/d below last month's estimate. Year-to-date throughputs for 2022 were also revised lower by the agency, resulting in a 355 kb/d downward adjustment to 2Q22 estimates.



The economic climate turned increasingly gloomy. The *Caixin Manufacturing PMI* descended into contractionary territory in August (to 49.5 from 50.4), while youth unemployment climbed to 19.9% in July, compared to 16.2% one year earlier. China's uncompromising measures to contain Covid-19 showed no sign of abating, as August saw a further pick-up in restrictions when a number of megacities (Chengdu, Shenzhen, Guangzhou, Dalian) were placed under lockdown. A weighted average of provincial curtailments from Oxford University's *Blavatnik School of Government* (BSG) reflected the more restrictive climate. Although still well below the level when Omicron-related

lockdowns took effect in March, almost half of the index's subsequent easing has now been reversed.

China's property bubble deflated further, entering a vicious circle as buyers threatened to stop paying their mortgages on unfinished homes, thereby further squeezing cash-strapped developers. Falling prices for steel, iron ore and aluminium (down by around one-third compared to their peak in the wake of Russia's invasion of Ukraine), for which demand is heavily geared towards Chinese construction, are a testament to China's property market implosion.

			: Demand	-	ct				
		I	Demand		Annual Ch	ng (kb/d)	Annual Chg (%)		
	2020	2021	2022	2023	2022	2023	2022	2023	
LPG & Ethane	1 836	2 153	2 332	2 473	179	141	8.3	6.0	
Naphtha	1 479	1 679	1 733	1 869	54	136	3.2	7.9	
Motor Gasoline	3 156	3 502	3 450	3 628	- 52	178	-1.5	5.2	
Jet Fuel & Kerosene	755	733	559	793	- 174	234	-23.7	41.9	
Gas/Diesel Oil	3 022	3 399	3 396	3 519	- 3	123	-0.1	3.6	
Residual Fuel Oil	490	527	538	576	11	38	2.2	7.1	
Other Products	3 466	3 434	3 003	3 121	- 431	118	-12.5	3.9	
Total Products	14 204	15 427	15 011	15 980	- 415	969	-2.7	6.5	

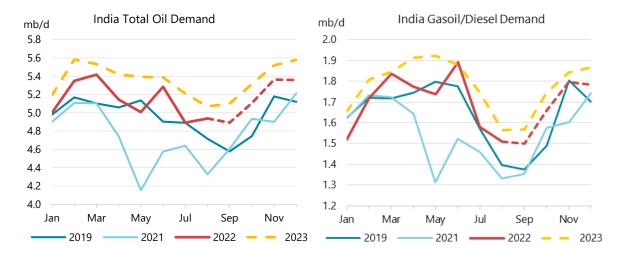
In view of this negative turn, we have reduced our forecast for 2022 by 350 kb/d to 15 mb/d (resulting in a 420 kb/d y-o-y decline for the calendar year). Positive overall y-o-y growth, already pushed back from July to September in last month's *Report*, will now not be attained until 1Q23. We then see this recovery gaining momentum throughout 2023 as pandemic restrictions are being eased, resulting in y-o-y demand growth of 970 kb/d, to 16 mb/d.

Gasoil and gasoline both underperformed our forecast by around 200 kb/d each in July, consistent with the increasingly bleak economic environment. LPG (-200 kb/d) and naphtha (-140 kb/d) usage fell m-o-m in July, partly reversing June's strength and more or less in line with our estimate. We have not materially adjusted our forecast for these products and continue to expect solid structural growth into 2023 of about 7%, reflecting major petrochemical capacity additions.

Jet/kerosene use rose by 130 kb/d in July, maintaining its momentum since pandemic-related travel restrictions were relaxed early in the second quarter. However, it appears that this recovery is running out of steam: according to flight tracking data from *Radarbox*, average August traffic fell by 5% from July, to 10,000 daily flights, the first monthly decline since April. In light of this reversal, we have reduced our estimate for jet fuel demand for the rest of 2022 by 80 kb/d and do not anticipate a return to y-o-y growth until 1Q23. While this rebound will gather force next year, 2023 demand of 790 kb/d will remain below 2019 levels. Jet fuel is the only product category where this is the case.

Indian deliveries hold firm in August

India's oil demand in August rose 50 kb/d m-o-m, and was up by 610 kb/d y-o-y. The S&P Global India Manufacturing PMI fell by 0.2 to 56.2 in August, remaining comfortably in expansion mode as firms recorded their fastest increase in production and orders in nine months. This reflects robust GDP growth, projected at about 8% for 2022, consolidating India's status as the world's fastest growing major economy. Combined with moderate consumer inflation (government measures have led to an effective petrol price freeze since May), this results in a buoyant climate for domestic demand growth, which is led by gasoil. This year's uneven, above-trend monsoon season (India



received 6% more rainfall than average between June and August) is now winding down and unlikely to have impacted consumption significantly.

Our demand forecasts for 2022 and 2023 are little changed (up 380 kb/d and 210 kb/d y-o-y, respectively), with growth decelerating from 2H22 onwards due to India's exposure to China's slowing economy.

		India:	Demand b	y Produ	ct			
		(th	ousand barrels	per day)				
		D	emand		Annual Chg	(kb/d)	Annual Ch	g (%)
	2020	2021	2022	2023	2022	2023	2022	2023
LPG & Ethane	873	892	920	937	27	17	3.1	1.9
Naphtha	313	313	296	302	- 17	6	-5.4	1.9
Motor Gasoline	698	781	855	907	74	52	9.4	6.1
Jet Fuel & Kerosene	118	127	152	206	25	54	20.0	35.3
Gas/Diesel Oil	1 448	1 551	1 691	1 779	140	88	9.1	5.2
Residual Fuel Oil	146	152	159	160	7	1	4.6	0.5
Other Products	984	950	1 072	1 067	122	- 5	12.9	-0.4
Total Products	4 582	4 765	5 144	5 356	379	212	8.0	4.1

Other Non-OECD

Russian demand rose by 10 kb/d m-o-m in July to 3.8 mb/d, as relatively strong deliveries for road fuels and jet/kerosene compensated for weaker fuel oil and petrochemicals. The government improved its economic outlook in September, and now forecasts a 2.9% fall for 2022 and -0.9% for 2023 (consensus estimates by economic research houses for these years are respectively -6.4% and -3.0%). Flight traffic at Moscow's Sheremetyevo airport rose 3% m-o-m in August, stabilising at pre-invasion levels. We continue to forecast declining demand for both 2022 (-30 kb/d y-o-y) and 2023 (-130 kb/d y-o-y), showing the negative drag of Russia's macro-economic deterioration.

Middle Eastern demand extended its remarkable run of recent months, growing by 600 kb/d m-o-m in June, well ahead of typical summer seasonal strength and 1 mb/d higher y-o-y. Once more, electricity generation was the main driver by far, as the burning of crude and fuel oil soared to feed power systems that were frequently struggling to cope with extreme temperatures. **Saudi Arabia's** deliveries rose by 360 kb/d m-o-m in June, with fuel oil accounting for more than half of the increase. At 4.1 mb/d, total oil demand was up 480 kb/d y-o-y to a five-year high. Iraq's situation was largely similar: deliveries climbed above 1 mb/d for the first time ever in June, 320 kb/d higher y-o-y, as its

power grid faltered with temperatures exceeding 50°C. With temperatures in the Gulf showing few signs of having eased in July and August, we have further raised our forecast for Middle Eastern demand growth by 90 kb/d to 530 kb/d for 2022 and by 20 kb/d to 80 kb/d for 2023.

		Non-	OECD: Den	nand by R	egion								
	(tho usand barrels per day)												
			Demand		Annual Chg	(kb/d)	Annual Chg	g (%)					
	2020	2021	2022	2023	2022	2023	2022	2023					
Africa	3 766	3 991	4 102	4 083	111	- 19	2.8	-0.5					
Asia	26 918	28 805	28 907	30 510	102	1 603	0.4	5.5					
FSU	4 559	4 848	4 752	4 651	- 95	- 101	-2.0	-2.1					
Latin America	5 451	5 955	6 071	6 124	116	53	2.0	0.9					
Middle East	8 075	8 480	9 006	9 086	526	80	6.2	0.9					
Non-OECD Europe	723	770	782	781	12	- 1	1.6	-0.1					
Total Products	49 491	52 849	53 621	55 235	772	1 614	1.5	3.0					

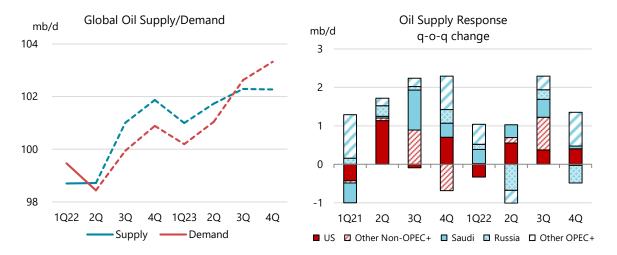
Latin American consumption was flat m-o-m in July (-50 kb/d y-o-y). Brazil's estimated demand fell by 20 kb/d m-o-m (-160 kb/d y-o-y). Deliveries have been reasonably resilient, as its positive trade balance and substantial foreign exchange reserves insulate Brazil somewhat against the negative economic sentiment that is weighing on many other emerging economies. In particular, the real has gained 8% against the US dollar so far this year and its GDP expanded in 2Q22 by 1.2%, more than expected. We see flat demand growth for 2022 and a 40 kb/d increase for 2023. Argentina's oil consumption was unchanged m-o-m in July (+50 kb/d y-o-y), corroborating the deceleration of recent months that followed a strong start to 2022. The slowdown occurred as the country became increasingly engulfed in an economic crisis, marked by consumer inflation soaring past 70% and the peso tumbling to a record low to the US dollar. We expect consumption to remain subdued for the rest of the year, with demand hovering around pre-pandemic levels during 2H22 and 2023.

Pakistani demand fell by 40 kb/d m-o-m in June (30 kb/d lower y-o-y), as the country's myriad economic problems (soaring consumer inflation, political instability, a collapsing currency and a sovereign debt crisis) weighed on oil demand. Extreme weather brought additional hardship. Exceptionally hot temperatures in April and May were followed by a disastrous annual monsoon season that brought three times the normal amount of rainfall, resulting in historic floods that left one-third of the country submerged. Although a Sri Lanka-type meltdown was narrowly averted in August when the International Monetary Fund approved a \$1.2 billion bailout, we anticipate demand growth to fall to zero y-o-y in 2022, before returning to positive territory in 2023 (60 kb/d y-o-y).

			D: Deman		duct			
			Demand	, por day,	Annual Chg	(kb/d)	Annual Cł	ng (%)
	2020	2021	2022	2023	2022	2023	2022	2023
LPG & Ethane	7 779	8 279	8 584	8 803	306	219	3.7%	2.5%
Naphtha	3 311	3 654	3 665	3 907	10	242	0.3%	6.6%
Motor Gasoline	10 987	12 000	12 172	12 560	172	388	1.4%	3.2%
Jet Fuel & Kerosene	2 113	2 162	2 339	2 803	177	464	8.2%	19.8%
Gas/Diesel Oil	13 472	14 457	14 756	14 824	299	68	2.1%	0.5%
Residual Fuel Oil	4 108	4 401	4 535	4 720	134	185	3.0%	4.1%
Other Products	7 722	7 897	7 571	7 619	- 326	48	-4.1%	0.6%
Total Products	49 491	52 849	53 621	55 235	772	1 614	1.5%	3.0%

Supply Overview

World oil production rose for a third straight month in August, up 790 kb/d m-o-m to 101.3 mb/d, with supply now forecast to outpace demand through 2Q23. OPEC+ output rose 340 kb/d, with a strong recovery in Libya and smaller gains from Saudi Arabia and the UAE offset by losses in Nigeria, Kazakhstan and Russia – as the latter posted its first monthly decline since April. Countries outside of the OPEC+ alliance (non-OPEC+) added 450 kb/d, led higher by the US, Brazil, Norway and Canada.



From August through December, production growth is forecast to slow markedly, edging up by just 280 kb/d to 101.6 mb/d. OPEC+ is expected to account for most of the gains, provided Libya

continues to rebound, the outlook for Kazakhstan improves and Nigeria recovers from near 40-year lows (see *Nigeria slips from Africa's top crude oil slot*). As for Russia, we expect the country's supply to decline gradually, from almost 11 mb/d in August to 10.2 mb/d in December as the EU embargo comes into full effect.

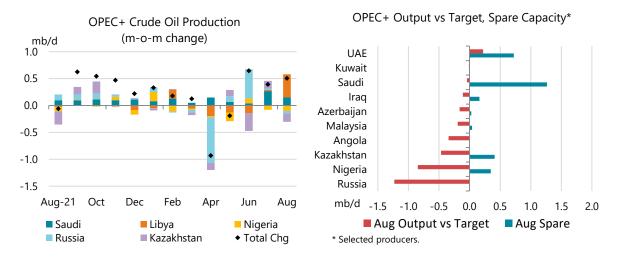
In 2022, global production is forecast to rise by 4.8 mb/d to 100.1 mb/d. OPEC+ is on track to contribute 3.2 mb/d, with Saudi Arabia poised to deliver the largest year-on-year (y-o-y) increase to reach an annual record high. Non-OPEC+ supplies are on track to rise by 1.6 mb/d in 2022, with the US providing 70% of the increase at 1.1 mb/d. A downward revision to the outlook for US light tight oil production reflects supply chain tightness and cost escalation, limiting growth as operators

Oil Suppl	y by S million bar			cers	
	2021	Δ	2022	Δ	2023
Non-OPEC+	46.3	1.6	48.0	1.8	49.8
US	16.8	1.1	18.0	1.1	19.1
Canada	5.6	0.1	5.7	0.1	5.8
China	4.1	0.1	4.2	0.1	4.3
Brazil	3.0	0.1	3.1	0.3	3.4
Norway	2.0	-0.1	1.9	0.2	2.1
Guyana	0.1	0.2	0.3	0.1	0.3
Non-OPEC+ Other	14.7	0.1	14.8	0.0	14.8
OPEC+	49.0	3.2	52.1	-0.1	52.0
Saudi Arabia	11.0	1.7	12.6	0.4	13.0
Russia	10.9	0.0	10.9	-1.3	9.6
Iraq	4.1	0.5	4.6	0.2	4.8
UAE	3.6	0.5	4.1	0.1	4.3
Iran	3.4	0.1	3.5	0.0	3.6
Kazakhstan	1.8	0.0	1.8	0.1	2.0
Nigeria	1.7	-0.2	1.5	0.0	1.5
OPEC+ Other	12.5	0.5	13.0	0.3	13.3
Total Supply	95.3	4.8	100.1	1.7	101.8

In 2023, world oil production is projected to rise by a smaller 1.7 mb/d, to reach an annual record of 101.8 mb/d, led by non-OPEC+ supply (+1.8 mb/d). US supplies are forecast to post record levels and again contribute the largest share of growth at 60%. By contrast, output from OPEC+ could contract with Russia's annual output set to tumble.

Wor	World Oil Production by Region (OPEC+ based on current agreement) (million barrels per day)													
	2021	1Q22	2Q22	3Q22	4Q22	2022	1Q23	2Q23	3Q23	4Q23	2023			
Africa	7.4	7.4	7.0	7.1	7.4	7.2	7.4	7.3	7.3	7.3	7.3			
Latin America	5.9	6.2	6.2	6.4	6.6	6.3	6.6	6.7	6.8	6.8	6.7			
North America	24.4	25.0	25.4	26.0	26.6	25.7	26.5	26.9	27.2	27.4	27.0			
China	4.1	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.2	4.3			
Other Asia	3.4	3.3	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1			
Europe	3.5	3.4	3.1	3.2	3.4	3.3	3.5	3.4	3.4	3.6	3.4			
FSU	13.8	14.4	13.4	13.5	13.4	13.7	12.7	12.5	12.4	12.5	12.5			
Middle East	27.9	30.1	30.8	31.7	31.9	31.1	32.0	32.0	32.1	32.1	32.1			
Total Oil Production	90.3	94.0	93.4	95.3	96.6	94.8	96.1	96.2	96.5	96.9	96.4			
Processing Gains	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4			
Global Biofuels	2.8	2.4	3.0	3.3	2.9	2.9	2.6	3.1	3.4	3.0	3.0			
Total Supply	95.3	98.7	98.7	101.0	101.9	100.1	101.0	101.7	102.3	102.3	101.8			
OPEC Crude	26.5	28.6	28.8	29.7	30.2	29.3	30.3	30.3	30.3	30.2	30.3			
OPEC NGLs	5.0	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.4	5.4	5.4			
Non-OPEC OPEC+	17.4	18.2	17.2	17.4	17.3	17.5	16.6	16.4	16.3	16.4	16.4			
Total OPEC+	49.0	52.0	51.3	52.4	52.9	52.1	52.2	52.0	51.9	52.0	52.0			

OPEC+ oil supply

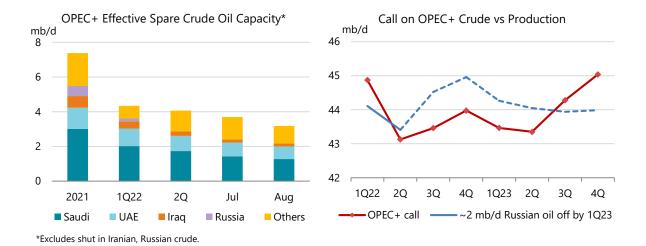


OPEC+ agreed to a nominal 100 kb/d supply cut for October, ostensibly to signal its willingness to stabilise world oil markets amid concerns of an economic and demand slowdown. The 5 September decision will return the group's supply target to August levels, reversing the marginal increase planned for this month. There will be no material impact on our balances given that most of the bloc is struggling to meet quotas. The 23-member producer group will meet again on 5 October.

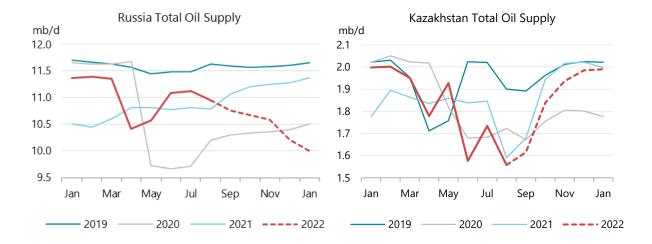
In August, OPEC+ crude oil supply rose by 510 kb/d thanks to a sharp recovery in Libya and smaller increases by Middle East producers as the alliance fully reversed record cuts enforced during the 2020 pandemic. At 44.67 mb/d, output was the highest since the bloc pumped flat out in April 2020

during a short-lived market share battle. Volumes from OPEC countries climbed 680 kb/d to 29.72 mb/d in August while production from non-OPEC partners fell by 170 kb/d to 14.95 mb/d.

That left the group's supply trailing 3.4 mb/d below its official target as operational issues, maintenance, capacity constraints and sanctions on Russia restricted supply. Russian crude oil output of 9.77 mb/d (-50 kb/d m-o-m) was 1.2 mb/d below its quota. Nigeria pumped far below its target at 850 kb/d and Kazakhstan undershot its target by 470 kb/d. Higher combined production from OPEC+ reduced the group's effective spare capacity to just above 3 mb/d, with Saudi Arabia and the UAE between them holding the lion's share. Saudi crude production approached 11 mb/d in August – a level scaled only twice before - leaving it with 1.3 mb/d to spare. The UAE had roughly 700 kb/d of idle capacity.



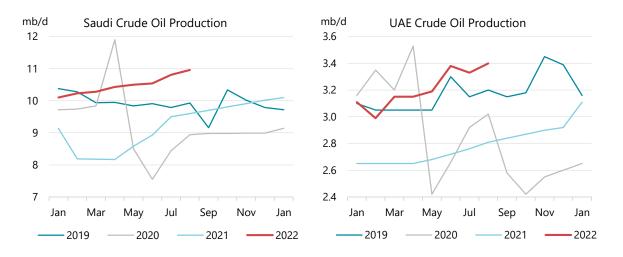
Despite an anticipated decline in Russian production, slightly higher OPEC+ volumes and slower demand could see a much-needed global stock build during the rest of this year and into the first half of 2023. We estimate the call on OPEC+ crude for 3Q22 at 43.5 mb/d, more than 1 mb/d below what the group pumped in August. The implied call rises by 500 kb/d to 44 mb/d in 4Q22, before falling to an average 43.4 mb/d in 1H23.



Supply from **Russia** fell in August – the first monthly decline since April. Total crude oil, condensates and NGLs decreased by 170 kb/d to 10.96 mb/d, down 450 kb/d from pre-invasion levels. Condensates accounted for 120 kb/d of the loss, reportedly due to a stabilisation plant being temporarily offline. Continued gas sales losses to Europe pose a threat to Russian gas production

and in turn to stabilised liquids extracted from the raw gas. We expect Russian oil production to ease gradually from September through November, along with lower anticipated refinery runs, and assume that the decline will be steeper in December when the EU embargo on Russian crude oil takes effect. That would result in annual average output in 2022 of 10.9 mb/d, steady versus 2021. By the start of next year, we now expect close to 2 mb/d shut in, which would reduce total oil output to 9.6 mb/d. Russia has meanwhile said it will refuse to supply oil to countries or companies imposing proposed price caps.

Kazakhstan posted the biggest decrease of the OPEC+ group as output fell in August after a gas leak hit operations at the Kashagan oil field and maintenance reduced flows at the 600 kb/d Tengiz field. Total production of crude oil and condensates declined by 180 kb/d to 1.6 mb/d, of which crude oil fell to 1.24 mb/d (-160 kb/d). Kashagan had pumped around 400 kb/d prior to its turnaround in June and July. It reportedly produced around 100 kb/d in August and was hovering around that level in early September. The Kashagan shutdown comes as planned maintenance limits output elsewhere. While work at Tengiz, the country's largest field, finished in early September, the 270 kb/d Karachaganak is due for an overhaul from 12 September through 6 October.



OPEC Middle East producers continued to raise supply as they phased out the final volumes halted at the start of the pandemic. **Saudi Arabia** pumped 10.96 mb/d of crude oil in August, up 150 kb/d m-o-m. Shipments of crude oil to world markets edged up while domestic consumption rose on stronger power generation needs. With the Kingdom poised to hit record output levels this year by tapping deeper into its spare production, Saudi Aramco plans to boost capital expenditure until the mid-2020s as part of its strategy to raise capacity to 13 mb/d by 2027. After a surge in profits to \$110 billion in 2021, Saudi Aramco is increasing capex by around 50% this year, to between \$40 billion to \$50 billion, with the bulk of it earmarked for upstream oil and gas activities.

The **UAE**, producing significantly above its OPEC+ target since the start of the year, raised crude oil supply to 3.4 mb/d (+70 kb/d). As part of plans to further increase production capacity, the Abu Dhabi National Oil Co has awarded five drilling contracts for onshore and offshore fields worth \$1.83 billion. Halliburton, Weatherford and Schlumberger were among the winners following a tender process.

In **Iraq**, volumes inched up 10 kb/d to 4.54 mb/d in August due to higher domestic consumption, but lagged 110 kb/d below its OPEC+ target. Exports of crude hovered around 3.7 mb/d, with shipments from the south (which account for around 90% of exported barrels) restricted by infrastructure constraints.

		OPEC+	Crude Oil Prod	uction ¹		
			(million barrels per day)			
	Jul 2022	Aug 2022	Aug Prod vs	Aug 2022	Sustainable	Eff Spare Cap
	Supply	Supply	Target	Target	Capacity ²	vs Aug ³
Algeria	1.02	1.02	-0.03	1.06	1.0	0.0
Angola	1.18	1.18	-0.35	1.53	1.2	0.0
Congo	0.26	0.27	-0.06	0.33	0.3	0.0
Equatorial Guinea	0.10	0.08	-0.05	0.13	0.1	0.0
Gabon	0.19	0.20	0.01	0.19	0.2	0.0
Iraq	4.53	4.54	-0.11	4.65	4.7	0.2
Kuwait	2.77	2.80	-0.01	2.81	2.8	0.0
Nigeria	1.08	0.98	-0.85	1.83	1.3	0.3
Saudi Arabia	10.81	10.96	-0.04	11.00	12.2	1.3
UAE	3.33	3.40	0.22	3.18	4.1	0.7
Total OPEC-10	25.27	25.43	-1.26	26.69	27.9	2.5
Iran ⁴	2.49	2.52			3.8	
Libya ⁴	0.65	1.08			1.2	0.1
Venezuela ⁴	0.63	0.69			0.8	0.1
Total OPEC	29.04	29.72			33.7	2.7
Azerbaijan	0.56	0.55	-0.16	0.72	0.6	0.0
Kazakhstan	1.40	1.24	-0.47	1.71	1.7	0.4
Mexico ⁵	1.62	1.65		1.75	1.7	0.0
Oman	0.87	0.85	-0.03	0.88	0.9	0.0
Russia	9.82	9.77	-1.23	11.00	10.2	
Others ⁶	0.86	0.88	-0.22	1.11	0.9	0.1
Total Non-OPEC	15.13	14.95	-2.11	17.16	15.9	0.5
OPEC+-19 in cut deal ^⁴	38.78	38.73	-3.37	42.10	42.1	3.0
Total OPEC+	44.17	44.67			49.6	3.2
1 Excludes condensates				4 Iron Libyo Vonoz	uele exempt from oute	

1 Excludes condensates.

2 Capacity levels can be reached within 90 days and sustained for extended period.

4 Iran, Libya, Venezuela exempt from cuts.

5 Mexico excluded from OPEC+ compliance. Only cut in May, June 2020.

3 Excludes shut in Iranian, Russian crude.

6 Bahrain, Brunei, Malaysia, Sudan and South Sudan.

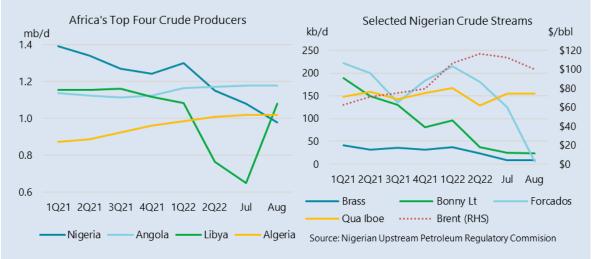
Crude oil supply from **Iran** crept up to 2.52 mb/d in August. Talks to revive the 2015 Iran nuclear deal have stalled after the EU put forward a "final text" a month ago. US Secretary of State Antony Blinken said on 12 September that Tehran's response to the EU proposal made the prospect of a near-term agreement unlikely. Iran could be a source of significant supplies if sanctions were to be eased (our base case assumes sanctions are not lifted), with 1.2-1.3 mb/d of crude oil gradually restored in about six to eight months.

Combined output from African members of OPEC+ rose 340 kb/d after a rebound in Libya offset another sharp loss in Nigeria. **Libya** accounted for the single-biggest OPEC+ increase in August after the National Oil Corp (NOC), under new management, reopened oil fields and terminals in mid-July. Output increased to an average 1.08 mb/d (+430 kb/d m-o-m) and NOC said production had topped 1.2 mb/d towards the end of August. But the North African country's politics remain divisive with rival groups still battling it out.

Nigeria slips from Africa's top crude oil slot

Chronic underinvestment, sabotage and oil theft continue to wreak havoc on Nigerian supply. Following a near complete halt to the Forcados stream, production in August plunged below 1 mb/d to a monthly low last seen in July 1985 and down 30% since the start of this year. Crude output of 980 kb/d (-100 kb/d m-o-m) left Nigeria – typically Africa's largest producer – trailing behind Angola, Libya and Algeria. Last month Nigeria undershot its OPEC+ quota by 850 kb/d. Its total oil production, including condensates and natural gas liquids, has fallen to 1.3 mb/d from 1.7 mb/d this January.

The outlook is not encouraging. Nigerian oil officials have repeatedly set, and missed, targets to overcome production issues – urging operators to re-open wells as quickly as possible. But it is proving difficult to restore output at brownfields in mid- to late-life decline, even using advanced optimisation



techniques. Companies are not reinvesting nearly enough in infill drilling and the continued development of assets. Furthermore, a poor regulatory framework along with sabotage are deterring much needed spending.

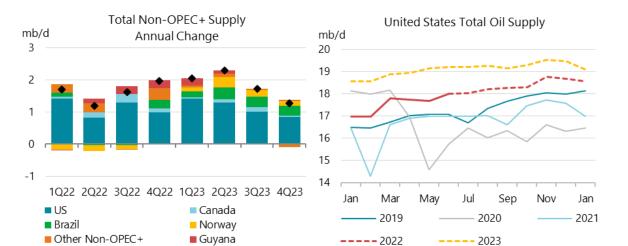
The core export streams of Forcados, Bonny Light and Brass River appear to be bearing the brunt of Nigeria's oil woes and in August all the crudes were running at a trickle. Shipments of Forcados have been halted since mid-July and repairs at the terminal were reportedly still ongoing. Production of Forcados all but ground to a halt in August, tumbling from 120 kb/d in July and down from more than 200 kb/d in 1Q22. The pipeline delivering Bonny Light crude has not operated since mid-June due to sabotage and theft on key pipelines, with exports under *force majeure* since mid-March. Bonny Light supply sank to around 20 kb/d last month compared to 125 kb/d in January and 220 kb/d at the start of 2021. Pipeline sabotage has also left exports of Brass River under *force majeure* since June.

Nigerian President Muhammadu Buhari was reported as saying the country's oil revenue is being "enormously" impacted by wide-spread oil theft. To combat theft in the oil-rich Niger Delta, the Nigerian National Petroleum Corp has enlisted security agencies, including those owned by ex-militants. But many believe this problem is ingrained throughout the supply chain, making it a challenge to tackle. As the price of crude oil escalated over the past six months, this situation appears to have worsened.

Non-OPEC+ oil supply

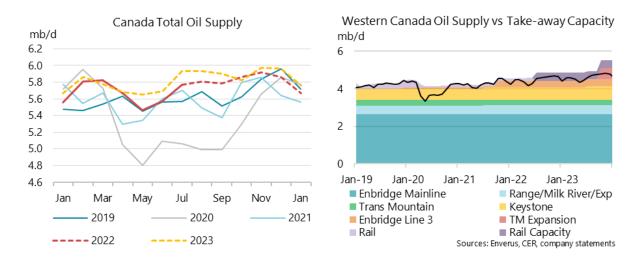
Total volumes from non-OPEC+ countries rose by 450 kb/d to 48.8 mb/d in August as China rebounded from seasonal declines and the US onshore, Norway and Brazil all continued to ramp up. Non-OPEC+ supply is projected to average 48 mb/d in 2022 and 49.8 mb/d in 2023, rising by 1.6 mb/d and 1.8 mb/d y-o-y, respectively. Through the remainder of the year, production will oscillate by a few hundred thousand barrels per day but end the year at 48.9 mb/d.

Total oil supply in the **United States** is forecast to average 18 mb/d this year, an increase of 1.1 mb/d, and will grow by the same amount in 2023 to 19 mb/d on average. In August, US output rose by 190 kb/d to 18.2 mb/d as US lower 48 crude increased by 110 kb/d and NGLs by 80 kb/d. The Gulf of Mexico (GoM) remained flat and hurricane impacts for September have been downgraded, but as the climatological peak of hurricane season is October, risks still loom large.



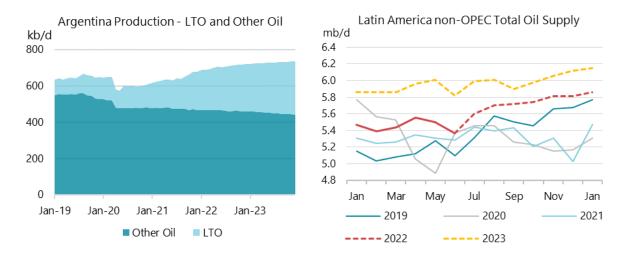
In June, the latest month for which official data from the US Energy Information Administration (EIA) are available, total oil supply rose by 310 kb/d as production rebounded by 180 kb/d from maintenance in the GoM and NGLs gained 100 kb/d. Light tight oil (LTO) was estimated to have increased by 50 kb/d with the majority of the barrels coming from the Permian Basin. The m-o-m average growth rate for US LTO since January of this year was 50 kb/d, slightly below the 2017 – 2021 five-year average of 60 kb/d, and we expect this growth rate to continue through the end of 2023.

According to data from the Alberta Energy Regulator (AER), **Canadian** supply rose by 200 kb/d in July on higher bitumen volumes. August output increased 40 kb/d m-o-m to 5.8 mb/d, levels that are sustained for the remainder of the year. Supply is now on course to average 5.7 mb/d in 2022. Next year, production is forecast at 5.8 mb/d, of which 4.6 mb/d will be exported through Western Canada, where pipeline capacity is currently 4.4 mb/d. The 200 kb/d surplus is slightly above average railed crude volumes since January 2019, yet well within existing capacity. If the Trans Mountain Expansion (TMX) gets delayed further beyond 4Q23, take-away capacity may be stressed.



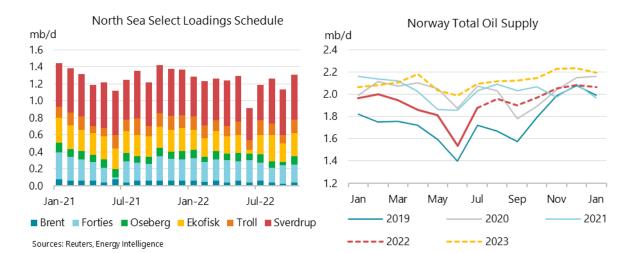
Argentina's production was relatively flat m-o-m in August at 710 kb/d, despite Neuquén basin fracking activity jumping 37% m-o-m and 24% y-o-y. Overall volumes are up 10% from a year ago, while LTO is up 47%, with the bulk coming from the Neuquén basin. Total Argentinean supply is forecast to average 710 kb/d in 2022 and grow by 20 kb/d to 730 kb/d next year, as Neuquén LTO more than offsets conventional declines elsewhere in the country. Export capacity for the basin will outpace oil growth with close to 700 kb/d of new capacity coming online over the next three years

with the latest announcement by majority state-owned YPF in early August. Supporting the increased pipeline expansions are recently announced fiscal reforms to allow oil companies to access foreign currency and tax and duty benefits if they increase their production.



Elsewhere in Latin America, production is estimated to have increased by 100 kb/d m-o-m in August as **Brazil** rose while **Peruvian** and **Ecuadorian** volumes both recovered from protests. In Brazil, a cyberattack on the Agencia Nacional do Petroleo (ANP) resulted in a halt in reporting of oil operations, with the latest monthly data available for June and preliminary daily data available through July. Petroecuador, the Ecuadorian national oil company, opened operating bids on 22 Oriente Basin oilfields in an effort to increase crude production by 100 kb/d by the end of the year. Ecuador is expected to average 470 kb/d this year, compared to a peak of 560 kb/d in 2016.

North Sea loadings (as measured by BFOE plus Troll and Johan Sverdrup) are scheduled at 1.3 mb/d for October, rebounding by 170 kb/d m-o-m as Brent, Oseberg, Ekofisk and Troll joined Forties and Johan Sverdrup at pre-maintenance levels. **UK** supply fell by 40 kb/d in August as fields in the Forties systems underwent maintenance. Through the end of the year, output is expected to increase by 110 kb/d to exit 2022 at 880 kb/d. In 2023, volumes continue to decline despite new projects coming online and the UK is forecast to average 810 kb/d.



Data from the **Norwegian** Petroleum Directorate show output in July was up 340 kb/d m-o-m to 1.9 mb/d as Johan Sverdrup and fields in the Greater Ekofisk area began pumping again after summer maintenance. Norwegian supply is estimated slightly higher in August, at 1.96 mb/d before

dipping briefly in September as Equinor performs maintenance on the Oseberg-Troll system. Norway should finish the year at 2.1 mb/d, 120 kb/d above August and average 1.9 mb/d in 2022. Production is expected to grow by 200 kb/d to 2.1 mb/d in 2023.

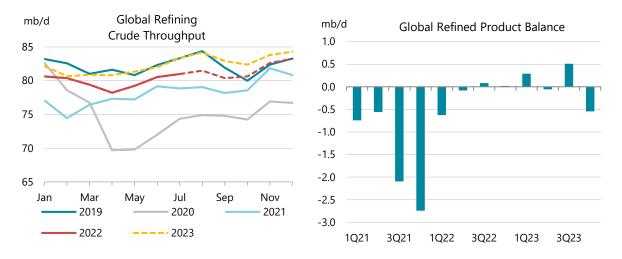
Elsewhere, **Chinese** production followed seasonal trends and declined in July by 150 kb/d to 4.1 mb/d. Supply recovered in August to 4.2 mb/d and is expected to remain relatively flat through the end of year. Following gains of 140 kb/d in 2022, growth is set to slow to 60 kb/d in 2023, to average 4.3 mb/d. In **Senegal**, Woodside's Sangomar project is 60% complete with first oil expected in 4Q23. Production is expected to peak at 100 kb/d and will produce a sour crude with a similar refining slate to Russian Urals.

Refining

Overview

The pace of the seasonal ramp-up in global refining activity in 3Q22 has slowed due to persistent weakness in China. In July, Chinese throughputs plunged by 520 kb/d m-o-m to just 12.8 mb/d, wiping out half of the expected monthly growth in global runs. Downward revisions for China in August and September were only partially offset by an upward revision for US throughputs.

On balance, our 3Q22 estimate is revised down by 420 kb/d to 80.85 mb/d, up by 2.3 mb/d y-o-y. This brings throughputs in line with estimated demand for refined products, minimising product stock builds for the quarter as a whole. July and August monthly balances imply inventory increases, but with refinery runs falling 1.1 mb/d in September at the start of seasonal maintenance, most of the earlier stock builds could be absorbed back into the market.



In line with the weaker near-term outlook for China, global refinery intake has been trimmed by 190 kb/d for 2022, and is now forecast to rise by 2.4 mb/d to 80.5 mb/d. Upward revisions to the Middle East and US refining activity for 2023 see growth average 1.8 mb/d to 82.3 mb/d, slightly above pre-pandemic 2019 levels.

Following a 1.6 mb/d q-o-q gain in 3Q22, global refinery throughputs are expected to increase by another 1.2 mb/d in 4Q22. However, 820 kb/d of this is accounted for by China, where the growth comes from the low base in 3Q22. This is to meet the expected domestic demand recovery, rather than to increase product exports. In 1Q23, seasonally lower refined product demand, combined with relatively stable refinery throughputs lead to the first substantial build in global refined product markets in more than two years.

Three new major refineries are expected to start-up before 1H23, with a combined capacity of 1.6 mb/d. Unplanned delays may yet cause the dates to slip by several months. The ramp-up period and ability to reach on-specification product output are also subject to uncertainties. Of the three, Kuwait's 615 kb/d Al-Zour project is expected be the first to ramp up to full capacity in 1H23, while Nigeria's 650 kb/d Dangote and Mexico's 340 kb/d Olmeca refineries are more likely to achieve it in the second half of the year.

				Globa	I Refin	ery Cru	ide Thro	oughpu	t ¹				-	
					(mi	llion barrels	s per day)							
	2019	2020	2021	1Q22	2Q22	Jul-22	Aug-22	Sep-22	3Q22	4Q22	2022	1Q23	2Q23	2023
Americas	19.2	16.6	17.8	18.4	18.7	19.0	19.2	18.6	18.9	18.5	18.6	18.4	19.3	19.0
Europe	12.2	10.7	11.0	11.0	11.6	12.0	11.7	11.6	11.7	12.0	11.6	11.2	11.3	11.5
Asia Oceania	6.8	5.9	5.8	6.2	5.8	6.0	6.2	6.0	6.1	6.2	6.1	6.2	5.7	6.0
Total OECD	38.1	33.2	34.5	35.6	36.1	37.0	37.1	36.2	36.8	36.8	36.3	35.8	36.3	36.5
FSU	6.8	6.4	6.7	6.6	5.9	6.4	6.4	5.9	6.2	6.1	6.2	5.7	5.0	5.3
Non-OECD Europe	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
China	13.4	13.7	14.4	14.2	12.9	12.8	13.1	13.7	13.2	14.0	13.6	14.1	14.2	14.4
Other Asia	10.3	9.3	9.5	10.3	10.5	10.4	10.5	10.3	10.4	10.7	10.5	11.0	10.8	10.9
Latin America	3.2	3.0	3.2	3.3	3.5	3.5	3.4	3.4	3.5	3.5	3.4	3.4	3.4	3.5
Middle East	7.8	7.1	7.6	7.7	8.1	8.3	8.4	8.3	8.4	8.6	8.2	8.6	9.1	9.1
Africa	2.0	1.9	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.3
Total Non-OECD	44.0	41.9	43.7	44.4	43.1	43.8	44.3	44.1	44.1	45.3	44.2	45.4	45.0	45.8
Total	82.1	75.0	78.2	80.0	79.2	80.9	81.4	80.3	80.8	82.1	80.5	81.1	81.3	82.3
Year-on-year change	-0.2	-7.1	3.2	4.1	1.4	2.1	2.5	2.2	2.3	1.8	2.4	1.1	2.1	1.8

¹ Preliminary and estimated runs based on capacity, known outages, economic runcuts and global demand forecast.

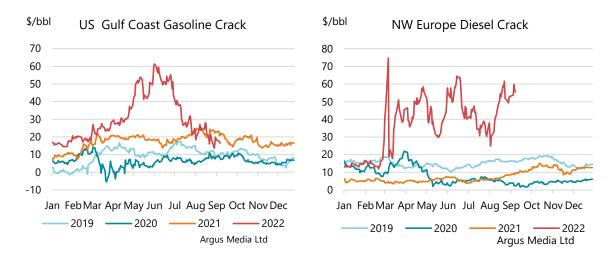
Product cracks and refinery margins

Crude prices dropped for the second consecutive month in August, with benchmark spot prices in Europe and the US falling \$8-13/bbl, and now hovering near levels seen prior to Russia's invasion of Ukraine. Lower crude prices provided a generally supportive environment for cracks. Most product differentials increased m-o-m, but gasoline continued falling, showing counter-seasonal weakness.

			Prod	uct Pric	es and	Differe	entials (\$	/bbl)				
		Prices		Differentia	als		· - · -	í	W	eek Starti	ng	
	Jun	Jul	Aug	Jun	Jul	Aug	Jul-Aug	08-Aug	15-Aug	22-Aug	29-Aug	05-Sep
Northwest Europe				to North Se	a Dated		chg					
Gasoline	162.92	130.94	111.23	39.09	18.92	11.60	-7.32	9.89	15.66	11.41	4.20	8.07
Diesel	178.75	152.16	142.81	54.92	40.14	43.18	3.04	32.11	46.25	57.26	51.36	56.42
Jet/Kero	178.11	146.88	142.85	54.29	34.87	43.22	8.36	31.87	47.11	57.71	50.71	53.43
Naphtha	90.20	85.62	74.25	-33.63	-26.40	-25.38	1.02	-28.52	-22.15	-24.37	-24.67	-20.21
HSFO	91.28	71.47	76.18	-32.55	-40.55	-23.45	17.10	-25.81	-17.25	-20.07	-27.95	-27.40
0.5% Fuel Oil	135.92	115.65	106.23	12.10	3.63	6.60	2.97	5.60	9.47	9.21	6.69	7.52
US Gulf Coast				to WTI Hou	ston							
Gasoline	169.71	134.83	115.54	53.88	32.98	21.93	-11.04	24.21	25.76	19.76	16.66	17.42
Diesel	179.48	151.92	148.23	63.65	50.07	54.62	4.55	45.97	57.08	65.63	60.89	60.85
Jet/Kero	171.69	145.44	139.74	55.86	43.59	46.13	2.54	38.44	48.11	56.16	51.10	53.09
Naphtha	111.82	90.34	87.05	-4.01	-11.51	-6.56	4.95	-0.96	-1.83	-11.02	-15.14	-14.25
HSFO	94.92	84.50	81.74	-20.91	-17.35	-11.86	5.49	-8.21	-12.60	-17.09	-16.69	-21.69
0.5% Fuel Oil	140.31	125.31	111.24	24.48	23.46	17.64	-5.83	19.37	15.95	15.26	15.50	14.36
Singapore				to Dubai								
Gasoline	149.10	116.35	107.19	35.03	12.32	9.57	-2.75	9.36	12.93	10.30	1.07	4.83
Diesel	177.35	145.27	139.12	63.28	41.24	41.50	0.26	33.31	42.21	51.16	44.95	46.16
Jet/Kero	165.10	134.90	131.73	51.03	30.87	34.12	3.24	26.15	35.76	44.00	38.21	38.26
Naphtha	85.42	82.70	72.73	-28.65	-21.32	-24.89	-3.57	-23.04	-23.93	-28.11	-29.66	-26.01
HSFO	92.45	73.83	74.95	-21.62	-30.19	-22.67	7.52	-20.21	-18.33	-24.67	-29.95	-31.36
0.5% Fuel Oil	155.05	135.90	110.92	40.98	31.88	13.30	-18.58	12.86	14.11	13.75	8.37	7.76

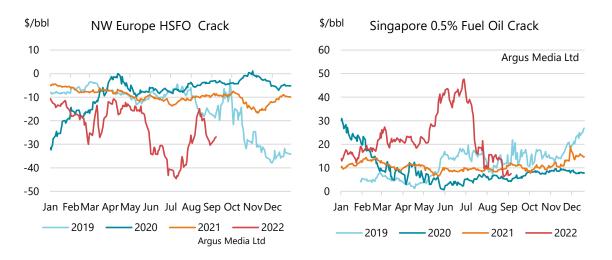
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US Gulf Coast gasoline cracks dropped \$11/bbl m-o-m to \$22/bbl on average in August, and are now 60% below lofty June levels of near \$54/bbl. At the end of the month, their daily values fell even further, to \$15/bbl, the lowest reading since January. Finalised US gasoline demand numbers for June were slightly higher than the weekly data, but they confirmed a significant y-o-y fall. The US driving season typically closes with the US Labor Day holiday in the first week of September. In Europe and Singapore, gasoline cracks fell to single digits at the end of the month. Unlike in the previous month, falling crude oil prices in August did not lead to gains in naphtha cracks. In Europe, they were essentially flat m-o-m, while in Singapore they dropped by \$3.60/bbl on weak petrochemical margins and demand.



In August, middle distillates cracks were generally stronger m-o-m. In Europe, diesel cracks averaged \$43/bbl, \$3/bbl higher m-o-m, but the main action was in the second half of the month when daily values surged to \$60/bbl. Rising Rhine water levels eased the flow of products from the Amsterdam-Rotterdam-Antwerp (ARA) hub to inland demand centres in Germany, Switzerland, France and Austria. Refinery issues in Germany and Austria exacerbated the tightness in the typically short central European markets. With normal product flows on the Rhine resuming, prices in the ARA hub finally started reflecting the full extent of the supply-demand gap. Jet cracks in Europe saw stronger gains and caught up with diesel crack levels.

In the United States, diesel prices increased faster and topped European levels, making export economics to Europe problematic. US diesel exports to Europe have not exceeded 100 kb/d on a monthly basis this year, out of 1.1 mb/d in total, as more than 90% typically goes to Mexico and Latin America. In Singapore, diesel cracks were flat m-o-m, but jet cracks increased. Seasonal typhoon activity in North East Asia and slowing export markets dampened diesel demand, notably in Korea.



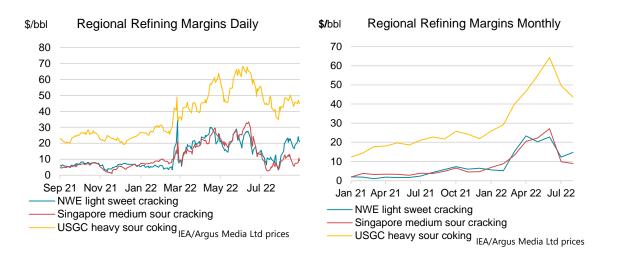
Fuel oil cracks fully capitalised on crude price falls, rebounding by \$17/bbl in Europe and \$8/bbl in Singapore. Arrivals from Russia in the Northwest Europe hub slowed dramatically over the summer months as more cargoes were sent to the Middle East, in part for power generation use. In Singapore, the 0.5% sulphur fuel oil differentials sharply narrowed, falling by \$18/bbl to \$13.30/bbl, the lowest since November 2021.

IEA Global Indicator Refining Margins												
		Mor	nthly Ave	rage	Change		Average for week starting:					
\$/bbl	May 22	Jun 22	Jul 22	Aug 22	Jul - Aug	08 Aug	15 Aug	22 Aug	29 Aug	05 Sep		
NW Europe												
Light sw eet hydroskimming	14.71	14.11	4.89	9.60	4.71	3.52	13.19	16.06	11.36	15.06		
Light sw eet cracking	20.31	22.79	12.29	14.77	2.48	7.88	18.24	22.32	17.52	22.06		
Light sw eet cracking + Petchem	23.75	27.56	15.00	16.73	1.73	9.99	20.22	24.27	18.50	22.76		
Medium sour cracking	57.87	60.28	40.00	35.48	-4.51	30.26	40.03	39.40	36.40	39.10		
US Gulf Coast												
Light sw eet cracking	37.83	45.12	29.39	25.62	-3.77	23.74	28.86	28.28	25.01	25.96		
Medium sour cracking	45.88	56.49	38.88	34.26	-4.63	31.78	37.39	38.10	33.74	33.91		
Heavy sour coking	54.86	64.39	49.64	43.63	-6.01	40.27	46.16	48.14	44.82	45.76		
Singapore												
Light sw eet cracking	15.50	24.03	12.04	11.75	-0.29	8.53	13.48	16.17	10.97	13.30		
Light sw eet cracking + Petchem	17.00	26.32	13.24	13.84	0.59	10.38	15.78	18.48	13.55	16.23		
Medium sour cracking	22.26	27.10	9.91	8.98	-0.93	6.17	11.25	12.19	6.40	8.63		
Medium sour cracking + Petchem	23.74	29.37	11.09	11.04	-0.05	7.99	13.53	14.47	8.95	11.52		

Note: Mediterranean and US Midcontinent margins are available in Table 15 of this Report.

Source: IEA/Argus Media Ltd prices.

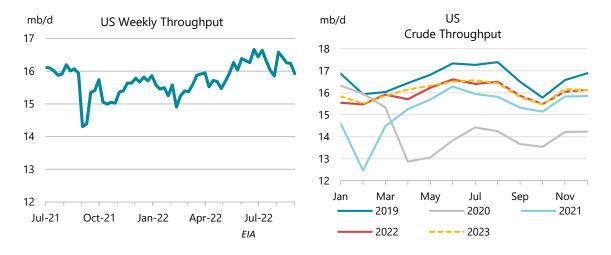
Methodology notes are available at https://www.iea.org/topics/oil-market-report#methodology



Rebounding diesel, plunging gasoline cracks and surging natural gas prices led to three distinct paths for refinery margins in August. In Europe, the refinery crude slate is now increasingly dominated by light sweet, diesel-oriented grades, requiring minimal natural gas inputs for processing. Margins increased m-o-m, as cracks for all products rose, bar gasoline. In Singapore, gains from middle distillates were offset by higher natural gas costs for the benchmark sour cracking margin, which fell \$1/bbl m-o-m. In the US, where gasoline accounts for almost half of refinery output, margins fell to their lowest levels since March. Nevertheless, US refinery margins remain the highest in the world.

Regional refining developments

Weekly data show **US** refinery runs slightly higher m-o-m in August, at 16.4 mb/d, but they failed to reach June's 16.5 mb/d levels, which is likely to stay as a peak value this year. Sharply lower gasoline cracks would normally pose a problem for heavily gasoline-oriented US refiners. Refinery margins, however, remain at elevated levels thanks to middle distillate cracks, supported by robust domestic and export demand. The absence of major hurricane activity in the Atlantic basin so far this season has led us to revise up our US throughput forecast for September by 310 kb/d.



In **Canada**, refinery throughputs were down 150 kb/d in 2Q22, on maintenance in April-May, but runs were up 70 kb/d y-o-y. In 2023, refining activity is expected to fully recover from the lockdown losses of 2020. **Mexican** throughput in July rebounded by 120 kb/d to 820 kb/d.

Refinery Crude Throughput and Utilisation in OECD Countries (million barrels per day)												
							Chang	je from	Utilisati	on rate		
	Feb 22	Mar 22	Apr 22	May 22	Jun 22	Jul 22	Jun 22	Jul 21	Jul 22	Jul 21		
US ¹	15.38	15.82	15.61	16.13	16.51	16.31	-0.21	0.46	93%	88%		
Canada	1.84	1.76	1.57	1.65	1.72	1.81	0.09	-0.02	95%	91%		
Chile	0.21	0.21	0.19	0.13	0.10	0.11	0.01	-0.06	49%	91%		
Mexico	0.85	0.83	0.89	0.82	0.71	0.82	0.11	0.17	50%	77%		
OECD Americas ¹	18.28	18.62	18.25	18.74	19.05	19.05	0.00	0.54	89%	85%		
France	0.78	0.80	0.83	0.85	0.85	0.98	0.13	0.19	86%	69%		
Germany	1.82	1.72	1.90	1.80	1.91	1.86	-0.05	0.15	92%	84%		
Italy	1.11	1.23	1.33	1.46	1.46	1.44	-0.02	0.23	83%	70%		
Netherlands	0.90	0.88	1.02	1.06	1.11	1.00	-0.10	0.01	83%	82%		
Spain	1.22	1.17	1.33	1.37	1.35	1.35	0.00	0.18	96%	83%		
United Kingdom	1.02	1.05	1.10	1.08	0.99	0.96	-0.03	-0.05	80%	85%		
Other OECD Europe ²	4.26	4.01	4.03	3.94	4.08	4.37	0.29	0.10	86%	89%		
OECD Europe	11.11	10.86	11.53	11.56	11.74	11.97	0.22	0.81	87%	81%		
Japan	2.82	2.72	2.72	2.65	2.42	2.57	0.14	0.32	74%	65%		
Korea	2.87	2.78	2.80	2.76	2.65	2.98	0.32	0.35	84%	75%		
Other Asia Oceania ³	0.58	0.53	0.51	0.48	0.49	0.47	-0.02	-0.13	90%	83%		
OECD Asia Oceania	6.27	6.03	6.03	5.89	5.57	6.02	0.45	0.53	80%	71%		
OECD Total	35.66	35.51	35.82	36.19	36.36	37.03	0.67	1.88	87%	81%		

1 US includes US50, OECD Americas include Chile and US territories

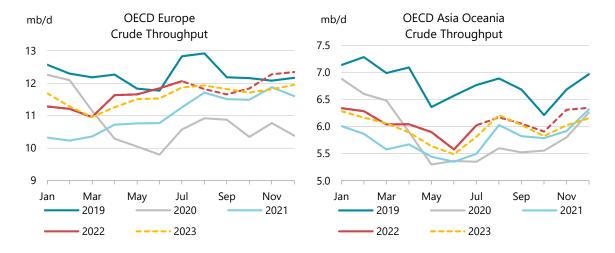
2 Includes Lithuania

3 Includes Israel

In Europe, throughputs in July continued their upward seasonal trend, rising by 225 kb/d m-o-m to just under 12 mb/d. The increase, however, came essentially from only three countries. The Donges refinery restart following 17-month shutdown was visible in the **French** data, which showed runs surging 130 kb/d m-o-m to 980 kb/d, the highest in three years. **Belgium** and **Norway** also saw throughputs recovering in July from maintenance in 2Q22. Elsewhere, somewhat counter-seasonally, refining activity fell m-o-m. In August, we estimated total regional runs lower on continued outages and the impact of Rhine water level on refinery operations. Storage bottlenecks for export products such as gasoline forced several refineries in **Germany** to reduce throughputs.

In a rare statement, Russian state-owned Rosneft said that its joint-venture Schwedt refinery in **Germany** imported WTI crude from the US via the port of Rostock for test-runs. Starting in

December, EU refiners will not be able to purchase Russian-origin crude oil. In August, US volumes supplied to the EU and UK nearly matched Russian imports (see *US challenges Russia for Europe's top crude oil supplier rank*). The Schwedt refinery is normally supplied via the Druzhba pipeline but is also connected to the ports of Rostock and Gdansk via pipelines.



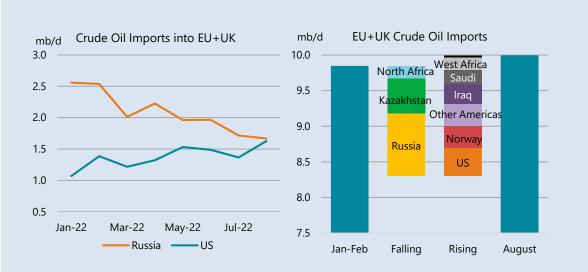
In OECD Asia, runs rebounded by 450 kb/d in July as **Japanese** and **Korean** refiners ramped up seasonally prior to autumn maintenance in September and October. Late August, typhoon Hinnamnor hit Northeast Asia, disrupting port operations in Korea, Japan, as well as China. However, no impact on refinery activity was reported. Korean S-Oil's 580 kb/d Unsan refinery was ordered by local fire authorities to stop operations at most of its units for the first half of September, as part of an ongoing investigation into the safety issues.

US challenges Russia for Europe's top crude oil supplier rank

The United States is the main contender to become Europe's biggest supplier of crude oil as refiners scramble to source alternative supplies ahead of a looming EU sanctions deadline. By August, the gap between imports of Russian and US barrels narrowed to just 40 kb/d, from a 1.3 mb/d pre-war average. US crude oil made up for almost half of lost Russian volumes in the region. Increased inflows from Norway, up by 310 kb/d, contributed to replacing another one third of foregone Russian crude oil. While Russia narrowly kept its lead as the biggest source of crude oil supply to EU countries (the UK has stopped crude oil imports from Russia), its share in their total imports has fallen from 27% to 17%.

By August, the EU and UK had cut imports of Russian crude oil by a combined 880 kb/d compared with pre-war levels. Our trade model, based on *Kpler* cargo tracking and estimated overland volumes, shows their crude oil imports from sources outside Russia increasing by about 1 mb/d over the same period.

Ongoing export constraints at the CPC terminal and upstream maintenance saw Kazakh crude import volumes in the EU+UK falling by more than a third to just 700 kb/d in August. In January-February, Kazakhstan was the third-largest crude supplier to the region. In addition to the US and Norwegian supplies, increased arrivals from Iraq, Saudi Arabia, Guyana and Brazil were able to close the gap and also meet higher import requirements.



Starting from December, EU countries will need to replace an additional 1.4 mb/d of Russian crude oil volumes versus August. When Kazakh volumes recover to normal levels, it could provide 400 kb/d to help offset Russian losses. US crude output is set to increase by about 300 kb/d towards the end of the year, which could replace the current additional volumes from the SPR release, set to expire in October. Over the March-August period, the US SPR provided around 730 kb/d of crude oil to the markets. However, higher imports from other sources, such as the Middle East and Latin America, would be needed to fully meet the new import requirements. For these suppliers, it is a question of arbitrage between their traditional Asian customers and new European buyers.

	Crude Oil Imports into EU and UK (mb/d)												
	Russia	Saudi Arabia	US	West Africa	Kazakstan	Iraq	Norw ay	North Africa	Other Americas	ROW	Total		
Jan-22	2.6	0.3	1.1	0.9	1.1	0.6	0.9	1.0	0.4	0.4	9.4		
Feb-22	2.5	0.6	1.4	0.8	1.3	0.7	1.0	1.1	0.5	0.5	10.2		
Mar-22	2.0	0.5	1.2	1.0	0.9	0.8	1.3	1.0	0.4	0.4	9.6		
Apr-22	2.2	0.5	1.3	1.1	0.7	0.7	1.3	1.1	0.4	0.5	9.8		
May-22	2.0	0.6	1.5	1.2	1.0	1.0	1.3	0.9	0.7	0.6	10.8		
Jun-22	2.0	0.7	1.5	1.5	0.7	0.8	1.2	0.7	0.8	0.5	10.4		
Jul-22	1.7	0.7	1.4	1.3	1.0	0.9	1.2	0.7	0.9	0.5	10.4		
Aug-22	1.7	0.6	1.6	1.0	0.7	0.9	1.3	0.9	0.8	0.5	10.0		
Aug vs Jan-Feb	-0.9	0.2	0.4	0.2	-0.5	0.3	0.3	-0.2	0.3	0.0	0.1		

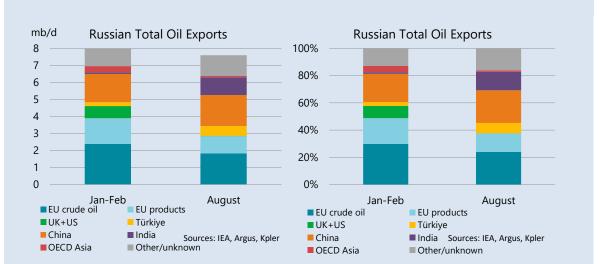
Sources: IEA, Argus, Kpler.

Note: Data in this table were derived by granular analysis of country of origin data in cases where shipments transit via third countries. They may differ from customs information.

Russian export volumes up, revenues down in August

Russian export options have significantly narrowed. Its top four customers EU, China, India and Türkiye now account for over 83% of total volumes, compared to 70% last year. The EU's crude oil and product import bans, which come into force in December and February 2023, respectively, will remove the world's largest oil importing region from the list of Russian oil buyers.

In for August, total oil exports from Russia rebounded by 220 kb/d to 7.6 mb/d. Crude exports rose 190 kb/d to 5 mb/d. Product exports were relatively stable at 2.6 mb/d. Russian oil export revenues benefited from an initial surge in oil prices but with crude falling by almost \$35/bbl since June the windfall has contracted. Estimated revenues fell by \$1.2 bn to \$17.7 bn as lower prices more than offset volumetric gains. Russian oil revenues may take a further hit when EU sanctions on Russian oil imports go into effect starting from December.



The EU was again the largest buyer of Russian crude oil in August. Shipments to the EU were largely unchanged m-o-m at 2.8 mb/d, with higher crude oil volumes offsetting lower product exports. For the first time since the start of the war in Ukraine, Russian crude oil exports to the EU increased m-o-m, but only to two destinations – Italy and the Netherlands, where Russian oil major Lukoil owns refineries. Product loadings to the EU, by contrast, fell by 140 kb/d m-o-m, spread across diesel, fuel oil and naphtha, to 1 mb/d. Diesel shipments fell to 580 kb/d, some 10% down from average January-February levels. Overall, EU liftings of Russian oil have declined by 1.1 mb/d since the invasion, reducing their share in Russian exports from 49% to 37%.

		Rı	ussian Oil	Exports (m	nb/d)				
	2021 avg	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22
EU crude oil	2.1	2.3	2.4	2.1	2.1	2.1	1.8	1.6	1.8
EU products	1.3	1.5	1.6	1.3	1.4	1.4	1.3	1.2	1.0
UK+US	0.7	0.6	0.9	0.2	0.1	0.0	0.0	0.0	0.0
Türkiye	0.2	0.2	0.2	0.4	0.4	0.3	0.4	0.4	0.6
China	1.6	1.7	1.6	1.8	1.8	2.0	2.2	1.8	1.8
India	0.1	0.1	0.1	0.5	1.0	1.0	0.8	1.2	1.0
OECD Asia	0.4	0.4	0.3	0.3	0.4	0.0	0.1	0.0	0.1
Other/unknow n	1.2	1.1	1.0	1.0	0.9	0.9	1.1	1.3	1.2
Total exports	7.5	8.0	8.0	7.7	8.0	7.8	7.6	7.4	7.6
Memo									
Pipeline to EU	0.7	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8
Pipeline to China	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Crude Oil	4.6	4.9	4.8	5.1	5.4	5.3	5.1	4.8	5.0
Oil Products	2.9	3.1	3.2	2.6	2.6	2.5	2.6	2.6	2.6
Estimated export revenues, \$bn	14.6	20.2	19.7	22.3	18.3	20.1	21.3	19.0	17.7

Sources: IEA, Argus, Kpler.

Note: Recent months volumes and revenues are estimates and subject to change.

Crude oil shipments to China were largely unchanged m-o-m, and marginally below the EU levels, with no recovery after the 400 kb/d m-o-m fall in July from the peak June levels. In Chinese official data for July, which show volumes that arrived and cleared customs, Russia remained the country's largest crude oil supplier for the third consecutive month, accounting for close to 20% of all imports.

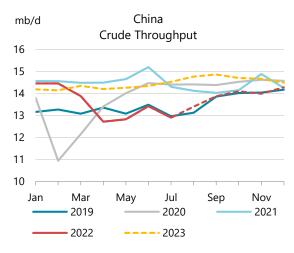
In August, a shipment of 330 kb of fuel oil was sent to the UK, which was discharged on 6 September at the Lindsey refinery owned by Prax Group. The UK oil embargo on Russian oil imports comes into force at the end of this year.

Total oil exports to India fell by 120 kb/d to 1 mb/d. Volumes to Türkiye surged to a new record level at 580 kb/d. Of this, 350 kb/d was crude oil, equivalent to almost half of the country's typical refining intake.

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Chinese refinery throughput in July plunged further, instead of an expected recovery. Runs fell by another 520 kb/d m-o-m to 12.8 mb/d, resulting in a 1.4 mb/d y-o-y drop. July data from the National

Bureau of Statistics (NBS) contained other negative updates. There was a downward revision in cumulative January to June throughputs of 5.2 mt, which we allocated to the months of March through June, as NBS does not specify the affected time periods. revision concerned mainly The two provinces: Liaoning and Xinjiang, where there are not many small-scale independent refiners and therefore, no known issues of deliberate underreporting of refinery intake. In addition, we revised down our August estimates and the forecast through end-2023. Overall, figures for Chinese



refinery throughputs have been lowered by 365 kb/d for 2022 and by 35 kb/d for 2023.

With these changes, the 2022 annual decline is set to reach an unprecedented 800 kb/d, compared to a drop in demand of 420 kb/d. The gap is accounted for by lower product exports. Gross exports of diesel, gasoline and kerosene have trailed year-ago levels by about 580 kb/d so far this year. Refiners only have 30% of their annual product export quota remaining for the August-December period. In 2023, runs are forecast to recover to 2021 average levels.

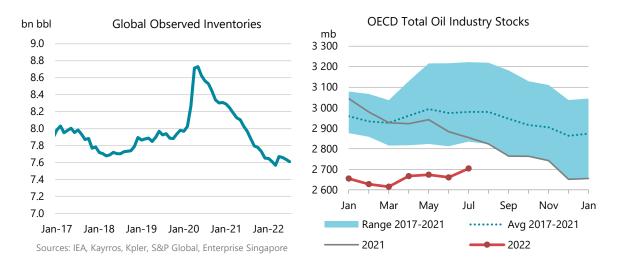
In the rest of developing Asia, combined throughputs from January to July have increased by 830 kb/d y-o-y, reflecting a strong post-Covid recovery. India, the largest refiner amongst them, accounted for more than half of the growth. In July, **Indian** throughputs fell by 210 kb/d m-o-m to 5 mb/d as the start of the monsoon season reduced domestic demand for diesel and other fuels. At the same time, refined product exports from India dropped some 20% m-o-m to around 1 mb/d, its lowest since October 2020, according to *Kpler* data. From 1 July, Indian diesel and kerosene exports have been subject to export duties. Starting from 1 September, the rates more than doubled to \$12/bbl and \$15/bbl for diesel and kerosene respectively.

Saudi throughputs rose to a record high in July, at 2.85 mb/d, with capacity utilisation rates reaching 88%, the highest since the start-up of the Jazan refinery. **Russian** refinery runs fell 50 kb/d m-o-m in August to 5.5 mb/d. The country's energy minister recently announced that refinery intake could drop by 8% in 2022, or 450 kb/d, which is much larger than the average y-o-y loss in January-August of 190 kb/d. In **Kazakhstan**, refinery throughputs in July fell 75 kb/d m-o-m to 320 kb/d on refinery maintenance. The government said it plans to import diesel from Russia to tackle domestic fuel shortages. Brazil data were not available at the time of writing. In **Argentina**, runs inched down to 490 kb/d in July.

Stocks

Overview

Global observed inventories declined in July for the third straight month, by a further 25.6 mb, and are close to their lowest level since at least 2016. Stocks in OECD countries rose by 17.6 mb while those in non-OECD countries fell by 20.1 mb, mainly in China. Oil on water declined by 23.1 mb. After posting a sharp increase in April, global crude stocks have drawn 140.4 mb while refined products have built by 80.3 mb from May through July.



OECD commercial oil inventories built by a significant 43.1 mb, or 1.4 mb/d, in July. The end-month stock level stood at 2 705 mb, narrowing the deficit versus the 2017-2021 average to 274.9 mb, its smallest since November 2021. Crude oil stocks built counter-seasonally by 14.8 mb. Product inventories rose by 29.2 mb, twice the normal seasonal rate. In terms of forward demand, total OECD industry stocks covered 58.8 days, up by 0.7 days m-o-m, but down by 3.5 days y-o-y.

Preliminary OECD Industry Stock Change in July 2022 and Second Quarter 2022 July 2022 (preliminary) Second Quarter 2022													
	(million barrels)					, ,	rels per day)		(million barrels per day)			
	Am	Europe	As.Ocean	Total	Am	Europe	As.Ocean	Total	Am	Europe	As.Ocean	Total	
Crude Oil	5.1	-0.4	10.0	14.8	0.2	0.0	0.3	0.5	0.0	0.2	-0.1	0.0	
Gasoline	4.1	-1.3	-2.2	0.6	0.1	0.0	-0.1	0.0	-0.2	-0.1	0.0	-0.3	
Middle Distillates	0.5	5.2	4.3	9.9	0.0	0.2	0.1	0.3	0.0	0.0	0.1	0.1	
Residual Fuel Oil	0.2	-1.1	-0.5	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Products	21.2	-1.7	0.7	20.2	0.7	-0.1	0.0	0.7	0.4	0.1	0.0	0.6	
Total Products	25.9	1.1	2.3	29.2	0.8	0.0	0.1	0.9	0.2	0.1	0.1	0.4	
Other Oils ¹	-2.1	1.7	-0.5	-0.9	-0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	
Total Oil	28.9	2.4	11.8	43.1	0.9	0.1	0.4	1.4	0.3	0.2	0.0	0.5	

¹ Other oils includes NGLs, feedstocks and other hydrocarbons.

OECD government stocks sold into the market totalled 25.6 mb in July, with 24.7 mb of crude, NGLs and feedstocks, and 0.9 mb of refined products. Preliminary data for August shows that around 180 mb has been released as part of the IEA's Collective Action since March.

August preliminary data for the US, Europe and Japan indicate stocks built for a second month, albeit by a smaller 5.3 mb. Crude oil, NGL and feedstock inventories contracted again, by 3.2 mb, led by a decrease of 3.6 mb in the US. By contrast, oil product stocks rose by 8.5 mb. Product stocks

increased in both the US (+12.9 mb) and Japan (+4.5 mb), but declined in Europe (-8.9 mb). Among the three regions, other product stocks increased by 22.7 mb while gasoline inventories were down by 10 mb, both in line with seasonal patterns. Middle distillate stocks fell counter-seasonally, by 4.1 mb, reflecting continuing market tensions. Residual fuel stocks were largely unchanged.

OECD stock data for June were revised lower by a large 19.2 mb following the submission of more complete data. This downgrade came mainly from OECD Americas where crude, NGL and feedstock inventories were reduced by 12 mb and product stocks by 7.7 mb. In OECD Asia Oceania, crude inventories were down by 5.7 mb while in Europe product stocks were up by 6.3 mb. May figures were also lowered, by a marginal 0.5 mb.

OECD Industry Stock Revisions versus August 2022 Oil Market Report												
(million barrels)												
	Americas		Euro	Europe		ceania	OECD					
	May-22	Jun-22	May-22	Jun-22	May-22	Jun-22	May-22	Jun-22				
Crude Oil	0.8	-8.5	-0.7	2.8	0.0	-5.7	0.1	-11.4				
Gasoline	0.0	0.4	0.7	0.2	0.0	-0.6	0.7	0.0				
Middle Distillates	0.0	-1.7	-0.9	-1.5	0.0	0.1	-0.9	-3.1				
Residual Fuel Oil	0.0	-1.9	0.7	1.4	0.0	-0.1	0.7	-0.5				
Other Products	0.0	-4.5	-0.5	6.2	0.0	0.8	-0.4	2.5				
Total Products	0.0	-7.7	0.1	6.3	0.0	0.2	0.2	-1.2				
Other Oils ¹	-0.2	-3.5	-0.5	-2.9	0.0	-0.2	-0.7	-6.6				
Total Oil	0.5	-19.7	-1.1	6.2	0.0	-5.7	-0.5	-19.2				

¹ Other oils includes NGLs, feedstocks and other hydrocarbons.

Implied balance

Global reported and observed stocks fell by 830 kb/d in July. OECD industry inventories increased by 1.4 mb/d, while 830 kb/d of government stocks were released in the month. Non-OECD crude oil inventories declined by 710 kb/d, according to *Kayrros* satellite data. The stock draw was led by China (-710 kb/d) and OPEC countries (-310 kb/d), which were partially offset by gains elsewhere. Product stocks in Singapore and Fujairah rose slightly, by a combined 60 kb/d. Oil on water declined by a large 830 kb/d, compared with a 1 mb/d build in the previous month.

Global Oil Balance and Observed Stock Changes (mb/d)												
	2020	2021	1Q22	2Q22	Jul-22	Aug-22						
Global oil balance	2.28	-2.39	-0.76	0.28	0.92	0.94						
Observed stock changes												
OECD industry stocks	0.41	-1.06	-0.34	0.50	1.39	0.17						
OECD government stocks	0.02	-0.16	-0.46	-1.08	-0.83	-0.59						
Non-OECD crude stocks*	0.44	-0.48	0.40	0.75	-0.71	-0.38						
Selected non-OECD product stocks**	0.12	-0.03	0.10	0.07	0.06	0.06						
Oil on water	0.01	-0.05	-0.51	0.53	-0.74							
Total observed stock changes	1.00	-1.78	-0.81	0.77	-0.83							
Unaccounted for balance	1.28	-0.61	0.05	-0.49	1.75							

*Crude stock change data from Kayrros. Data are available for selected countries and include only, and not all, above-ground storage.

** JODI data adjusted for monthly gaps in reporting, latest data for June 2022, plus Fujairah and Singapore inventories.

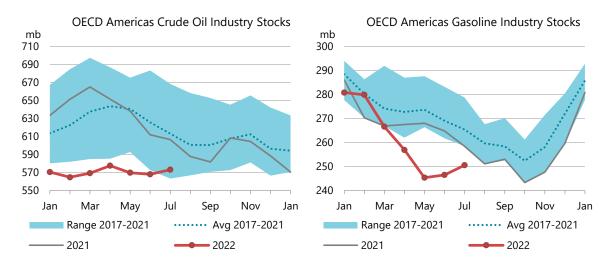
Sources: IEA, EIA, PAJ, Euroilstock, Kayrros, JODI, Kpler, FEDCom/S&P Global Platts and Enterprise Singapore.

Recent OECD industry stocks changes

OECD Americas

Industry stocks in the OECD Americas rose by 28.9 mb to 1 462 mb in July, 119.2 mb lower than the five-year average. Crude oil inventories built by 5.1 mb compared with a normal seasonal decline of 12.6 mb. The release of 24.4 mb of crude oil from the US Strategic Petroleum Reserves (SPR) supported the increase. NGL and feedstock inventories fell by 2.1 mb.

Product stocks were up by a large 25.9 mb. The increase was led by higher other product inventories (+21.2 mb), which was above the normal seasonal gain (+13.4 mb) in July due to high propane production in the US. The continued weakness of the US driving season extended the counter-seasonal build in gasoline stocks by 4.1 mb. Middle distillate and fuel oil inventories edged up by 0.5 mb and 0.2 mb, respectively.

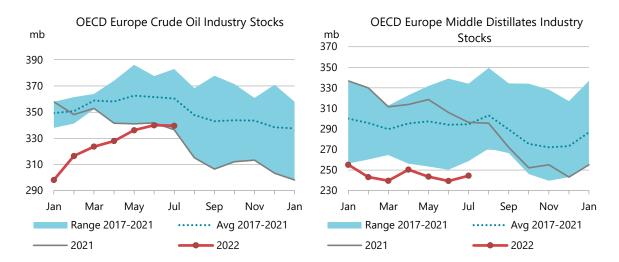


Weekly US EIA data show total oil stocks rose by 9.3 mb in August. Crude oil inventories decreased by 3.4 mb, less than the usual 17.2 mb draw thanks to continued SPR releases. Refined oil product stocks were up by 12.9 mb, in line with the seasonal norm, led by other products (+23.9 mb). Gasoline stocks fell by 9.2 mb, following the counter-seasonal increase in July. Middle distillate and residual fuel oil inventories inched down by 0.8 mb and 1 mb, respectively.

OECD Europe

Commercial inventories in OECD Europe built by 2.4 mb in July. At 913.8 mb, the stock level was 85.6 mb lower than the five-year average. Regional crude oil stocks registered their first decline since January, by 0.4 mb, driven by high regional refinery intake (+220 kb/d m-o-m). However, the stock level was 3.1 mb higher than a year ago. NGL and feedstock inventories rose by 1.7 mb, supported by the release of 0.6 mb of government stocks.

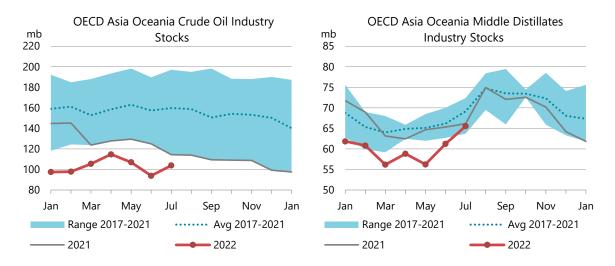
Total oil product stocks posted a marginal gain of 1.1 mb, versus the typical seasonal draw of 2.5 mb. Middle distillates led the build at a 5.2 mb, mainly in France (+1.4 mb) and Germany (+1.4 mb) where a combined 1.2 mb of emergency reserves were made available. Gasoline, fuel oil and other product inventories fell by 1.3 mb, 1.1 mb and 1.7 mb, respectively.



Preliminary data from *Euroilstock* show 9.2 mb of draws in Europe in August. Both crude oil and refined product stocks declined (-0.3 mb and -8.9 mb, respectively). Middle distillates inventories fell by a significant 5.9 mb, led by decreases in France (-1.9 mb), the Netherlands (-1.1 mb) and Germany (-0.8 mb). Gasoline stocks declined by 1.8 mb, mainly in Germany (-0.9 mb). Fuel oil inventories fell by a marginal 0.3 mb.

OECD Asia Oceania

Total industry oil stocks in OECD Asia Oceania rose by 11.8 mb to 329.2 mb, remaining 70 mb below the five-year average in July. Crude stocks built by 10 mb, far more than the five-year average gain (+2.4 mb). The increase was led by Korea (+9.8 mb), where crude imports jumped by 570 kb/d m-o-m to their highest level since May 2020, according to *Kpler*. NGL and feedstock inventories eased by 0.7 mb.



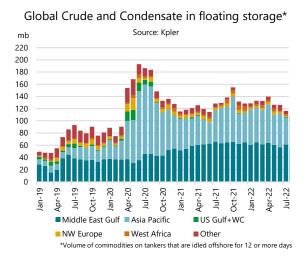
Total oil product stocks increased by 2.3 mb in line with seasonal patterns. Middle distillate stocks rose the most, by 4.3 mb. By contrast, gasoline inventories posted a larger decrease (-2.2 mb) compared with the five-year average (-0.4 mb). Japanese gasoline stocks (8.9 mb) hit the lowest level since 1989, but still covered 12 days of forward supply due to weaker forward demand, in line with the five-year average. Fuel oil stocks decreased slightly, by 0.5 mb, while other oil product stocks inched up by 0.7 mb.

Preliminary data from the Petroleum Association of Japan show a 5.2 mb build in August, largely in line with seasonal trends. Crude oil stocks fell by 1.1 mb while oil product inventories gained 4.5 mb as crude runs rose 300 kb/d m-o-m. Gasoline stocks edged up by 0.8 mb. Middle distillate stocks increased by 2.6 mb, compared with a normal build of 3.8 mb. Fuel oil also rose, by 1.3 mb, while other products marginally declined by 0.2 mb. Other oil (unfinished products and feedstocks) stocks built by 1.8 mb.

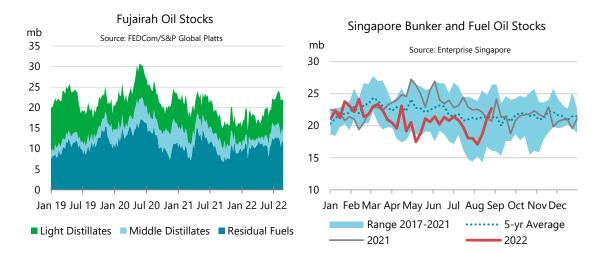
Other stock developments

According to data from Kpler, volumes of oil on water (including floating storage) fell by 23.1 mb in

July. Crude oil declined by 30.2 mb while products increased by 7.1 mb. Global crude exports rose by 370 kb/d m-o-m, mainly from Saudi Arabia, but more crude was imported (+1.3 mb/d m-o-m) especially in East Asia and North America, such as Japan, Korea, Chinese Taipei and the US. Crude oil held in short-term floating storage fell by 9.8 mb to 116.3 mb in July. The Asia Pacific region led the decrease (-10.9 mb) while they increased in the Middle East region (+4.2 mb). Oil product floating storage built by 0.4 mb to 57.5 mb, mainly in the Middle East Gulf (+1.7 mb).



In Fujairah, independent product stocks fell by 1.3 mb in August according to data from *FEDCom* and *S&P Global Platts*, following operational disruptions due to flooding in the area. However, at 21.9 mb, stocks remain 2 mb above their five-year average. Heavy distillates decreased by only 0.8 mb despite firm demand from Singapore and Saudi Arabia. Light distillates and middle distillates inventories edged down by 0.2 mb and 0.4 mb, respectively.

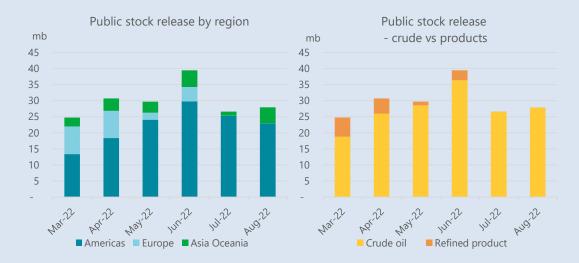


Independent product stocks in Singapore, the world's largest bunkering hub, rose by 3.1 mb in August, according to data from *Enterprise Singapore*. At 46.7 mb, the end-month stock level is the highest since January. Larger imports and smaller exports than the previous month partially explain the stock build. Residual fuel stocks posted a significant build (+4.6 mb) while light distillate and middle distillates fell by 1.3 mb and 0.1 mb, respectively.

Total oil inventories in 10 non-OECD economies reporting to the *JODI-Oil* database drew 4.6 mb m-o-m in June, led by a 3.4 mb of decrease in oil product stocks. Product stocks in India fell by 3 mb due to strong diesel and gasoline demand. Product stocks also declined in Nigeria (-1.1 mb) and Hong Kong (-0.9 mb) but were partially offset by an increase in Saudi Arabia (1.6 mb). Crude oil inventories were slightly down, by 0.5 mb m-o-m. In Chinese Taipei crude stocks slumped by 6.7 mb, hitting their lowest level since December 2013 due to subdued crude imports and high refinery intake. Crude inventories also decreased in Iraq (-3.5 mb), Saudi Arabia (-2.6 mb) and Angola (-2.4 mb). By contrast, they rose in India and Nigeria by 5.2 mb and 2.4 mb, respectively, after a sharp decline in May (-6.7 mb and -5.6 mb, respectively).

IEA stock releases help temper oil market impact from Russian invasion of Ukraine

OECD government oil stocks have been flowing into international markets at a rate equivalent to nearly 1 mb/d on average from March through end-August. The additional volumes have helped ease the burden on already exceptionally low industry inventories and reduce the price tensions sparked by Russia's invasion of Ukraine. IEA member countries have already delivered nearly 180 mb of government stocks as part of the IEA's two emergency Collective Actions as well as additional volumes that have been released from strategic stocks in IEA countries based on separate, independent decisions.



The vast majority of the oil released from public stocks is crude oil, estimated at 164 mb, compared to 15 mb of oil products. IEA countries in Europe and Asia have released 23.8 mb and 21.6 mb, respectively, a mixture of both crude oil and oil products. The United States has released 133.9 mb of crude oil from its SPR.

It is expected that just over 50 mb of additional volumes will be released from IEA countries in September and October. The vast majority of this will come from the United States, with close to 47 mb of oil sales already awarded through the SPR's tendering process which have yet to be delivered.

In addition to the release of public stocks, many IEA countries agreed to participate in the March and April Collective Actions by making available a total of 45 mb of industry stocks via the lowering of industry stockholding obligations. While the IEA Collective Actions remain active, the obligation on IEA countries to hold oil stocks at a level equivalent to at least 90 days of net imports will remain suspended.

Days

Days

Days

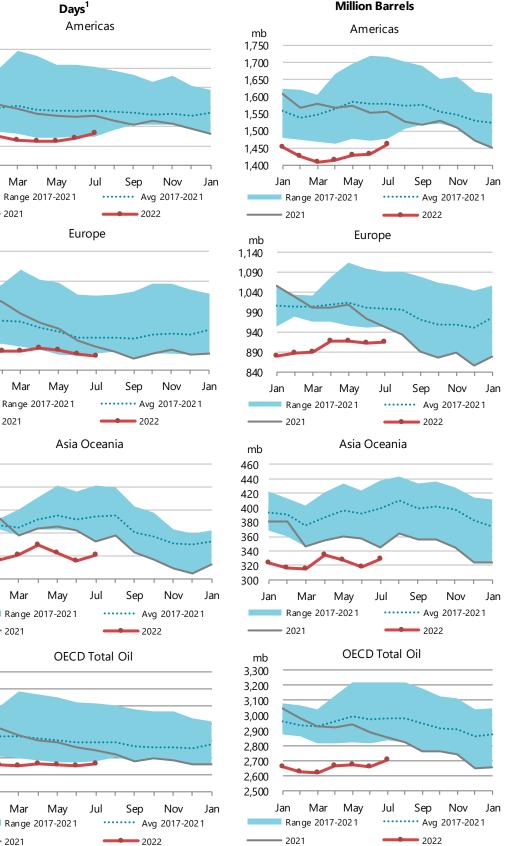
Days

Jan

Jan

Jan

Jan



Regional OECD End-of-Month Industry Stocks

(in days of forward demand and million barrels of total oil)
Days¹
Million Barrels

¹ Days of forward demand are based on average OECD demand over the next three months.

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Prices

Overview

Brent futures have given up \$34/bbl and North Sea Dated \$45/bbl in just three months versus the early June peak. This is the largest 90-day decline since March-April 2020 and is only exceeded prior to 2020 by market routs in 2014-15 and 2008-09. The recent price collapse has had steady momentum, driven by a broadening consensus of decelerating global economic growth combined with robust oil supply and the coordinated release of strategic stocks. The extreme drop underlines the depth of market alarm about the state of the world economy.

	Crude I	Prices a	and Diffe	rentials	(\$/bbl)			\$/bbl	Benchmark Crude Prices
		Month		Week of	Last	Chng /	Aug-22		Source: Argus Media Ltd
	Aug-21	Jul-22	Aug-22	12 Sep	12 Sep	m-o-m	у-о-у	120	
Crude Futures (N	11)							130	<u>/-</u> /
NY MEX WTI	67.71	99.38	91.48	87.78	87.78	-7.90	23.77		N N
ICE Brent	70.51	105.12	97.74	94.00	94.00	-7.38	27.23	120	
Crude Marker Gr	ades								
North Sea Dated	70.75	112.63	99.63	93.22	93.22	-13.00	28.88	110	
WTI (Cushing)	67.73	99.84	91.57	87.78	87.78	-8.27	23.84	1	
Dubai	69.32	102.86	96.43	92.50	92.50	-6.42	27.12	100	
Differential to No	rth Sea D	Dated							
WTI (Cushing)	-3.02	-12.79	-8.06	-5.44	-5.44	4.73	-5.04	90	
Dubai	-1.43	-9.77	-3.20	-0.72	-0.72	6.57	-1.77		
Differential to ICE	Brent							80	V
North Sea Dated	0.24	7.51	1.89	-0.78	-0.78	-5.62	1.65	May-	-22 Jun-22 Jul-22 Aug-22 Sep-22
NY MEX WTI	-2.80	-5.74	-6.26	-6.22	-6.22	-0.52	-3.46	may	WTI Cushing N. Sea Dated
Sources: Argus Media	Ltd, ICE, N	YMEX (N	MEX WTI:	= NYM EX Li	ght Sweet C	Crude)			— Dubai ICE Brent M1

Sources: Argus Media Ltd, ICE, NYM EX (NYM EX WTI = NYM EX Light Sweet Crude)

The global economy is on the cusp of a recession. China's zero-Covid policy colliding with its protracted real-estate crisis has sapped domestic consumption while the deterioration in its goods exports has slowed manufacturing. Europe's outlook has degraded due to surging gas and power prices and a swelling fiscal burden as governments absorb part of the impact on consumers. Robust US economic activity has slowed under the weight of massive interest rate increases as the US Federal Reserve, like other central banks, battles soaring inflation.

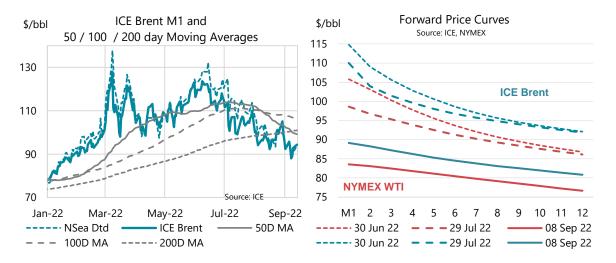
The oil supply increase from June to August substantially outstripped demand growth. Global seaborne crude oil exports rose 1.3 mb/d in the three months to August, 30% more than overall demand. Combined with the steady release of SPR barrels from IEA member countries, this has fed a build in oil industry stocks that helped substantially ease crude price tensions. The steep crude price backwardation has fallen by almost 70% since the June high point. At the same time, the record spot crude price premiums to futures in June had flipped to discounts by late August. The burden on physical markets is apparent in the increasing delay for announced loading programmes to sell out.

While changes in the fundamentals certainly underpin these price developments, their scale and rapidity have concerned many actors in the market. Declining paper market liquidity for all energies, including oil, has aggravated volatility, which in turn has forced players to further cut positions. The resulting increase in risk management costs can discourage hedging which may have knock-on effects for prices in some less liquid physical markets.

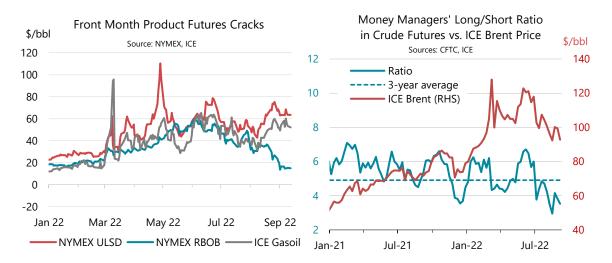
Freight rates remain stubbornly high as changes in trade flows since February increase the call on available tanker capacity. This remains true for both crude and products.

Futures markets

Futures prices were down ~30% from their 8 June highpoint to their recent 7 September lows (ICE Brent -\$35.60/bbl to \$88/bbl, WTI -\$40.20/bbl to \$81.90/bbl), before they rapidly recovered ~\$5/bbl in the subsequent days. These massive declines have disrupted market play and contributed to a large reduction in money manager net long positions. Prices fell around \$7-8/bbl m-o-m in August (ICE Brent -\$7.38/bbl to \$97.74/bbl, WTI -\$7.90/bbl to \$91.48/bbl). On 8 September, the 50-day moving average of the ICE Brent price slipped below the 200-day moving average, which often signals the development of a bear trend in financial markets.



Backwardation in crude futures has collapsed, dropping 65% from end-June to early September. While forward prices gave up little ground and resisted the flattening of the curve in June and July, they tracked much of the losses in August. By 8 September, the 12-month backwardation was \$6.90/bbl on WTI and \$7.40/bbl on ICE Brent. The increased cost of margin calls due to volatility has diminished the roll-gains from holding forward positions in a backwardated market, possibly contributing to money managers cutting net long positions.



Cracks for gasoline futures corrected sharply lower while for gasoil/diesel they rebounded to stronger levels last seen in June. RBOB US gasoline cracks to WTI futures fell \$10.17/bbl m-o-m to \$30.77/bbl and averaged just \$14.85/bbl in the week of 5 September, a level more in line with the historical range. Gasoline prices were down on weaker demand – due to high prices and lower consumer

spending - plus sustained supply as refiners run hard to meet gasoil demand. ULSD gasoil cracks to WTI rose \$5.90/bbl m-o-m to \$59.41/bbl and averaged \$65.63/bbl in the week of 5 September (just below their June average). Gasoil cracks to ICE Brent futures rose \$0.48/bbl to \$45/bbl and reached \$56/bbl in the week of 5 September. Gasoil markets remain supported by strong demand, low stocks, uncertainty about access to Russian exports, and tight refinery supplies.

	P		Nonth O i y and week			S					
	Jun-22	•	Aug-22	Aug			Week	Comme	encina:		Last
			···· J	m-o-m	v-o-v				.		Luot
				Chg	Chg	08 Aug	15 Aug	22 Aug	29 Aug	05 Sep	12 Sep
US Market											
Light Sweet Crude Oil (WTI) 1st contract	114.34	99.38	91.48	-7.90	23.77	91.92	89.06	92.89	90.34	84.79	87.78
Light Sw eet Crude Oil (WTI) 12th contract	93.95	83.00	83.36	0.36	20.13	83.91	82.86	84.36	81.61	78.03	80.73
RBOB	167.47	140.32	122.25	-18.07	28.63	126.29	124.58	120.02	109.43	99.78	102.68
ULSD	180.72	152.89	150.89	-2.00	63.89	142.17	150.26	164.54	156.09	149.93	151.33
ULSD (\$/mmbtu)	31.70	27.00	26.87	-0.13	11.18	25.39	26.77	29.24	27.70	26.50	26.83
Henry Hub Natural Gas (\$/mmbtu)	7.60	7.19	8.78	1.59	4.75	8.25	9.17	9.38	9.11	7.97	8.25
European Market											
Brent 1st contract	117.50	105.12	97.74	-7.38	27.23	97.62	94.88	99.65	97.25	91.71	94.00
Brent 12th contract	98.03	88.25	88.39	0.14	22.31	88.86	87.51	89.46	86.49	82.76	84.72
Gasoil	174.02	149.64	142.74	-6.90	64.95	133.71	140.75	154.40	148.95	147.13	146.23
Prompt Month Differentials											
WTI M1 - Brent M1	-3.16	-5.74	-6.26	-0.52	-3.46	-5.70	-5.82	-6.76	-6.91	-6.92	-6.22
WTI M1 vs. M12	20.39	16.38	8.12	-8.26	3.64	8.01	6.20	8.53	8.73	6.76	7.05
Brent M1 vs. M12	19.47	16.87	9.35	-7.52	4.92	8.76	7.37	10.19	10.76	8.95	9.28
ULSD - WTI	66.38	53.51	59.41	5.90	40.12	50.25	61.20	71.65	65.75	65.14	63.55
RBOB - WTI	53.13	40.94	30.77	-10.17	4.86	34.37	35.52	27.13	19.09	14.99	14.90
3-2-1 Crack (WTI, RBOB, ULSD)	57.55	45.13	40.32	-4.81	16.61	39.66	44.08	41.97	34.64	31.70	31.12
ULSD - Natural Gas (\$/mmbtu)	24.10	19.81	18.09	-1.72	6.43	17.14	17.61	19.87	18.59	18.53	18.58
Gasoil - Brent	56.52	44.52	45.00	0.48	37.72	36.09	45.87	54.75	51.70	55.42	52.23

Source: ICE, NYMEX.

Money manager net length in the crude futures markets declined in August. Positions in early September versus end-July were down 5% for ICE Brent and 13% for WTI. While long positions eased for both contracts, WTI saw a big increase in short positions. The ratio of long to short futures positions for crude contracts is now some 30% below its long-term average.



Money manager net length in products futures rose 6% m-o-m, with a near 30% gain for ICE gasoil more than offsetting losses on NYMEX ULSD and RBOB contracts. ICE gasoil net length rose due to sharp reductions in short positions, reflecting the accumulation of bullish drivers for the international gasoil market.

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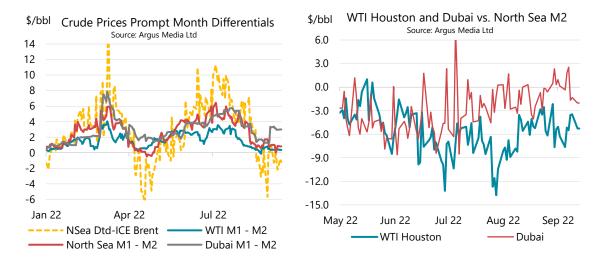
Jan-22

Jan-20

Overall open interest in ICE and NYMEX oil futures continues to fall, reflecting the high cost of holding open positions. It has reached levels last seen in December 2014, highlighting the reduced market liquidity. On the other hand, trading volumes have stabilised around the lower number of contracts that stand open.

Spot crude oil prices

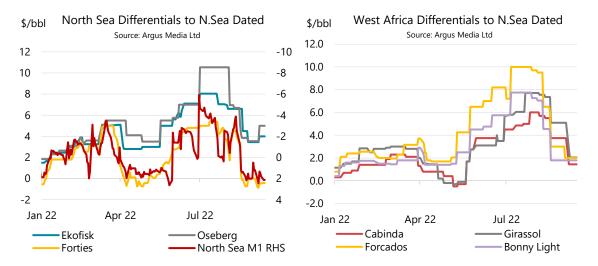
Weaker demand, the onset of refinery maintenance, falling margins and steady SPR draws combined to erode physical crude price valuations in August. The physical forward price structure flattened, spot barrels slid to discounts versus futures, and crude price differentials versus marker grades deteriorated. Crude demand weakness has swung from Asia - during China's 2Q22 Covid lockdowns - to the Atlantic Basin as European and North American gasoline demand deteriorated.



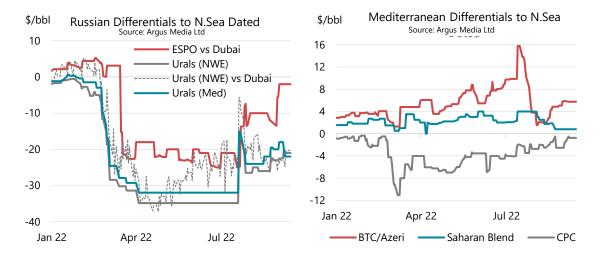
North Sea Dated dropped \$13/bbl to \$99.63/bbl in August as its premium to ICE Brent shrank \$5.62/bbl m-o-m to \$1.89/bbl. The differential has fallen to an average -\$1.45/bbl discount versus ICE Brent since 20 August with the flattening time structure and as unsold barrels cleared more slowly ahead of the subsequent month's loading programmes.

Sustained discounts for WTI at Houston versus North Sea Dated M2 kept the transatlantic arbitrage open throughout August and into September as European refiners pulled in light sweet US crude. The Dubai discount to North Sea Dated M2 narrowed, weakening the arbitrage for Middle East crudes to Europe but supporting that for Atlantic Basin barrels to Asia. The WTI Houston discount to North Sea Dated M2 widened by \$0.46/bbl m-o-m to -\$3.72/bbl while the Dubai discount to North Sea Dated M2 narrowed by \$1.36/bbl m-o-m to -\$0.90/bbl in August and averaged a slight premium from 22 August to 9 September.

Weaker refinery demand and ample European supply – with continuing arrivals of light sweet US barrels - pressured crude price differentials in the North Sea and West Africa. After peaking in early July, differentials steadily deteriorated as buying slowed while offers were sustained. The sudden uptick in VLCC chartering rates during August mitigated the impact of stronger Asian refinery demand on West African crude price differentials. The Forties premium to North Sea Dated collapsed by \$3.13/bbl m-o-m to \$1.86/bbl, maintaining an average discount of -\$0.40/bbl after 20 August. Those for Ekofisk and Oseberg fell \$2.08/bbl m-o-m to \$5.66/bbl and \$4.70/bbl to \$5.85/bbl, respectively, with both averaging ~\$3.80/bbl after 20 August. In West Africa, differentials to North Sea Dated for the Nigerian light sweet crudes lost ground earlier than the heavy sweet Angolan grades. But from the first week of August to the first week of September, they all lost \$3-5/bbl.



Price assessments for Russian crudes, Urals and Espo, have become somewhat more transparent since mid-July as *Argus* gathered fairly consistent market commentary on trading activity, albeit not always from the buyers or the sellers themselves. The data show differentials rising for all grades, particularly for Espo. Those increases have picked up in recent weeks as Asian refinery activity is rebounding. Of note, despite the stronger Urals differentials versus North Sea Dated, the differentials versus Dubai (the natural crude benchmark for Asian refiners) have returned to around -\$20-25/bbl after their mid-July spike.



In the Mediterranean, Algerian Saharan Blend premiums to North Sea Dated lost ground due to the sharp deterioration in naphtha values over the past month (a large component in the crude's yields). BTC premiums plunged, after an extraordinary July spike, falling \$6.90/bbl m-o-m to \$3.70/bbl as European refinery demand paused. CPC discounts to North Sea Dated narrowed by \$0.80/bbl to -\$2.20/bbl as maintenance and outages sharply reduced export volumes.

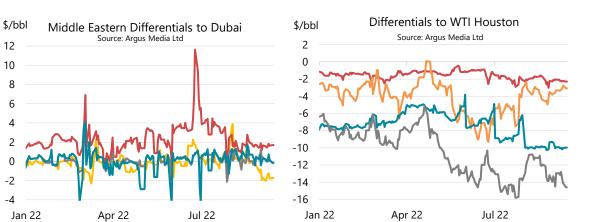
In the Middle East, heavy sour Al Shaheen slid to a discount versus Dubai, reflecting the deterioration in high sulphur fuel oil in recent weeks. Light sweet Murban premiums to Dubai narrowed by \$1.40/bbl over the month to \$1.73/bbl on weaker gasoline and naphtha values. Upper Zakum and Oman remained closely aligned with the benchmark Dubai.

Prices

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Al Shaheen

Upper Zakum



Murban

Oman

In the US Gulf of Mexico, the WTI Houston premium to Cushing remained unchanged, sustaining crude flows from the Midcontinent to the coast and feeding strong export volumes. Mars discounts to WTI at Houston narrowed by \$1.67/bbl m-o-m to -\$3.65/bbl as US SPR releases flipped to predominantly sweet crude, boosting demand for regional sour production. Discounts for heavy sour WCS (Western Canadian Select) also narrowed (\$2.38/bbl to -\$12.16/bbl). In western Canada at Hardisty, WCS discounts to WTI at Cushing narrowed by \$4.75/bbl to -\$20.90/bbl.

WTI Cushing

Maya USGC

	Spot	Crude	Oil Price	es and D	oifferent	ials					
			y and weekl								
	Jun-22	Jul-22	Aug-22	Aug	-22		Week	Comme	ncing:		Last
				m-o-m	у-о-у						
				Chg	Chg	08 Aug	15 Aug	22 Aug	29 Aug	05 Sep	12 Sep
Crudes											
North Sea Dated	123.62	112.63	99.63	-13.00	28.88	102.68	95.41	98.00	95.63	90.64	93.22
North Sea M1	121.74	109.85	99.19	-10.66	28.23	99.59	95.70	99.90	96.84	92.47	95.35
North Sea M2	117.56	105.11	97.33	-7.78	26.80	97.41	94.79	98.85	95.86	91.84	94.52
WTI (Cushing) M1	114.59	99.84	91.57	-8.27	23.84	91.92	89.06	93.29	90.34	84.79	87.78
WTI (Cushing) M2	112.25	97.04	90.88	-6.16	23.41	91.16	88.65	92.78	89.82	84.39	87.41
WTI (Houston) M1	115.83	101.85	93.61	-8.24	25.29	93.72	90.74	95.78	92.46	87.03	90.08
Urals (NWE)	88.77	83.05	74.63	-8.43	6.05	77.07	69.41	74.70	72.88	69.54	72.22
Dubai (1st mon)	112.89	102.86	96.43	-6.42	27.12	96.10	92.57	97.92	97.48	92.03	92.50
Differentials to Futures											
North Sea Dated vs. ICE Brent	6.12	7.51	1.89	-5.62	1.65	5.06	0.53	-1.65	-1.62	-1.07	-0.78
WTI (Cushing) M1 vs. Futures	0.25	0.46	0.09	-0.37	0.07	0.00	0.00	0.40	0.00	0.00	0.00
Differentials to Physical Markers											
WTI (Houston) versus North Sea M2	-1.73	-3.26	-3.72	-0.46	-1.51	-3.68	-4.05	-3.07	-3.40	-4.81	-4.44
WTI (Houston) versus WTI (Cushing) M1	1.24	2.01	2.04	0.03	1.45	1.80	1.68	2.49	2.13	2.24	2.30
Urals (NWE) versus North Sea Dated	-34.85	-29.57	-25.00	4.57	-22.83	-25.61	-26.00	-23.30	-22.75	-21.10	-21.00
Dubai versus North Sea M2	-4.67	-2.26	-0.90	1.36	0.32	-1.31	-2.22	-0.93	1.62	0.19	-2.02
Dubai versus WTI (Cushing) M2	0.64	5.82	5.55	-0.27	3.70	4.94	3.92	5.14	7.66	7.64	5.09
Prompt MonDifferentials											
Forw ard North Sea M1-M2	4.18	4.74	1.86	-2.88	1.43	2.18	0.91	1.05	0.98	0.64	0.83
Forw ard WTI Cushing M1-M2	2.34	2.80	0.69	-2.11	0.43	0.77	0.41	0.51	0.52	0.39	0.37
Forw ard Dubai M1-M2	3.85	5.27	2.33	-2.94	1.04	3.28	1.79	1.54	2.10	3.12	3.00

Source: Argus Media Ltd, ICE, NYM EX

Freight

The continuing shift in global trade flows since the invasion of Ukraine supported dirty tanker freight rates throughout July and August. Clean tanker rates surged East of Suez, anticipating the end of regional refinery maintenance, while those in the Atlantic Basin were weaker. Global tanker activity stagnated in August (-0.6%), according to *Kpler*, despite a surge in seaborne export volumes.

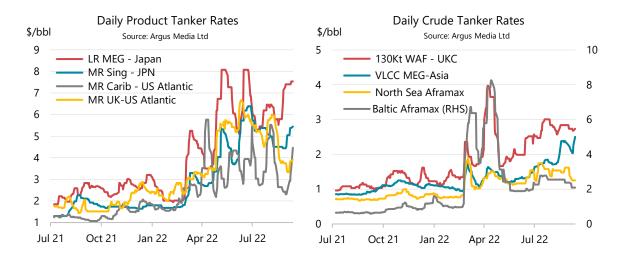
Mars

WCS USGC

August dirty tanker freight rates held steady or declined slightly, with the exception of VLCC rates which rose 17% m-o-m (and 140% y-o-y) for vessels heading from the Middle East to Asia. Rates fell slightly for Aframax tankers as charterers switched to more economic larger vessels on longer haul routes. Baltic routes in Northeast Europe dipped 2% to \$2.52/bbl, while North Sea rates fell by 1%, to \$1.54/bbl. West Africa to UK Suezmax rates remained unchanged at \$2.78/bbl.

In recent months, many charters sent dirty tankers westward to take advantage of the robust Atlantic Basin trade flows. The US strategic stock release helped push more US crude to European refiners while reduced Asian demand allowed Europeans to take more West African barrels. However, recovering Asian refinery demand boosted East of Suez chartering in August. This lifted dirty tanker freight rates for VLCCs loading in the Middle East Gulf crude market and helped to attract ships.

Product tanker rates mostly weakened in August. The notable exception was on the Middle-East-to-Asia long-haul route where rates rose 8% to \$6.27/bbl (+\$3.90/bbl y-o-y). By contrast, Medium Range (MR) tanker rates have deteriorated, with inter-regional movements in Asia dropping 17%. Rates for transatlantic movements on MR vessels gave up 19% m-o-m to \$4.85/bbl while inter-American rates (Caribbean to US) lost 8% m-o-m. US demand for European product cargoes has eased while tonnage remains ample.



			(mon	Freig hthly and wee	ht Costs	s, \$/bbl)					
				Aug	-22		W	leek Cor	nmencii	ng	
	Apr-22	Jun-22	Aug-22	m-o-m chg	y-o-y chg	01-Aug	08-Aug	15-Aug	22-Aug	29-Aug	05-Sep
Crude Tankers											
VLCC MEG-Asia	1.49	1.38	2.04	0.66	1.19	1.72	1.75	2.23	2.37	2.25	2.11
130Kt WAF - UKC	3.06	2.31	2.78	0.47	1.70	2.81	2.63	2.81	2.84	2.79	2.71
Baltic Aframax	6.32	1.97	2.52	0.54	1.88	2.55	2.55	2.55	2.48	2.37	2.13
North Sea Aframax	1.39	1.32	1.54	0.22	0.84	1.51	1.54	1.51	1.56	1.56	1.27
Product Tankers											
LR MEG - Japan	4.22	6.67	6.27	-0.40	3.90	6.42	5.89	5.74	6.29	7.38	7.43
MR Sing - JPN	3.01	5.58	4.61	-0.97	2.65	5.01	4.51	4.51	4.48	4.65	5.25
MR Carib - US Atlantic	3.83	3.82	3.53	-0.30	2.27	5.39	4.12	2.75	2.55	2.38	3.16
MR UK-US Atlantic	3.64	6.00	4.85	-1.15	3.07	5.86	5.76	4.45	3.80	3.57	3.69
Source: Argus Media Ltd											

Tables

Tables

						Та	able 1										
			W	ORL					EMA	ND							
							barreis pei										
	2019	2020	1Q21	2Q21	3Q21	4Q21	2021	1Q22	2Q22	3Q22	4Q22	2022	1Q23	2Q23	3Q23	4Q23	2023
OECD DEMAND																	
Americas	25.4	22.5	22.9	24.4	24.9	25.1	24.3	24.8	25.0	25.1	25.1	25.0	24.9	25.2	25.4	25.3	25.2
Europe	14.3	12.4 7.2	12.0 7.7	12.7 7.0	13.9 7.1	14.0 7.8		13.2 7.9	13.4	14.0 7.2	13.9 7.8	13.6 7.5	13.4	13.6 7.2	14.1 7.4	13.9 7.9	13.7
Asia Oceania Total OECD	7.9 47.7	42.0	42.5	44.1	45.8	46.9	44.8	45.8	7.0 45.4	46.3	46.8	46.1	8.0 46.3	45.9	46.9	47.1	7.6 46.6
NON-OECD DEMAND		42.0	42.0		40.0	40.0	44.0	40.0		40.0	40.0	40.1	40.0	40.0	40.0		40.0
FSU	4.7	4.6	4.6	4.7	5.0	5.1	4.8	4.7	4.7	4.9	4.7	4.8	4.5	4.5	4.8	4.8	4.7
Europe	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.8		0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
China	14.1	14.2	14.9	15.6	15.6	15.6		15.4	14.2	14.9	15.5	15.0	15.4	15.9	16.1	16.5	16.0
Other Asia	14.1	12.7	13.7	13.1	12.8	13.9		14.1	14.0	13.4	14.1	13.9	14.5	14.5	14.2	14.9	14.5
Americas	6.3	5.5	5.7	5.8	6.1	6.1	6.0	5.9	6.1	6.1	6.1	6.1	5.9	6.1	6.2	6.2	6.1
Middle East	8.8	8.1	8.2	8.4	8.9	8.4	8.5	8.5	9.2	9.6	8.8	9.0	8.7	9.3	9.5	8.8	9.1
Africa	4.1	3.8	4.0	3.9	3.9	4.1	4.0	4.2	4.1	4.0	4.1	4.1	4.1	4.1	4.0	4.2	4.1
Total Non-OECD	52.9	49.5	51.9	52.3	53.0	54.1	52.8	53.7	53.1	53.7	54.1	53.6	53.9	55.1	55.7	56.2	55.2
Total Demand ¹	100.6	91.5	94.5	96.4	98.9	100.9	97.7	99.5	98.4	99.9	100.9	99.7	100.2	101.0	102.6	103.3	101.8
OECD SUPPLY																	
Americas	24.8	23.9	23.4	24.4	24.4	25.3	24.4	25.0	25.4	26.0	26.6	25.7	26.5	26.9	27.2	27.4	27.0
Europe	3.4	3.6	3.6	3.1	3.4	3.4	3.4	3.3	3.0	3.1	3.3	3.2	3.4	3.3	3.3	3.5	3.4
Asia Oceania	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Total OECD ²	28.6	28.0	27.6	27.9	28.3	29.2	28.3	28.8	28.9	29.6	30.4	29.4	30.4	30.7	31.0	31.3	30.8
NON-OECD SUPPLY																	
FSU	14.6	13.5	13.4	13.7	13.7	14.3	13.8	14.4	13.4	13.5	13.4	13.7	12.7	12.5	12.4	12.5	12.5
Europe	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
China	3.9	4.0	4.1	4.1	4.1	4.0	4.1	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.2	4.3
Other Asia	3.3	3.0	3.0	2.9	2.8	2.8		2.8		2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.6
Americas	5.3	5.3	5.3	5.3	5.4	5.2		5.4	5.5	5.7	5.8	5.6	5.9	5.9	6.0	6.0	6.0
Middle East	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3
Africa	1.5	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Total Non-OECD ²	31.8	30.3	30.2	30.5	30.5	30.8	30.5	31.4	30.5	30.8	30.7	30.8	30.1	30.0	29.9	30.0	30.0
Processing gains ³	2.4	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4
Global Biofuels	2.8	2.6	2.2	2.9	3.2	2.7	2.8	2.4	3.0	3.3	2.9	2.9	2.6	3.1	3.4	3.0	3.0
Total Non-OPEC Supply	65.6	63.0	62.1	63.6	64.3	65.0	63.8	64.9	64.7	66.1	66.3	65.5	65.4	66.1	66.7	66.7	66.2
OPEC ⁴																	
Crude	29.6	25.7	25.4	25.6	27.0	27.8	26.4	28.5	28.7								
NGLs	5.3	5.1	5.1	5.1	5.1	5.2		5.3	5.4	5.4	5.4	5.3	5.4	5.4	5.5	5.5	5.4
Total OPEC	35.0	30.8	30.4	30.7	32.1	33.0	31.5	33.8	34.1								
Total Supply	100.6	93.8	92.5	94.2	96.4			98.7	98.7								
STOCK CHANGES AND MISCELI		IS															
Reported OECD	0.1	0.4	1.2	0.5	1 2	10	1 1	0.2	0 5								
Industry Government	0.1 0.0	0.4 0.0	-1.2 0.1	-0.5 -0.2	-1.3 -0.1	-1.2 -0.3	-1.1 -0.2	-0.3 -0.5	0.5 -1.1								
Total	0.0	0.4	-1.2	-0.7	-1.4	-1.5	-1.2	-0.8	-0.6								
Floating storage/Oil in transit Miscellaneous to balance ⁵	0.1 -0.1	0.0 1.8	-0.4 -0.4	-0.6 -0.9	-0.3 -0.7	1.1 -2.4	-0.1 -1.1	-0.5 0.6	0.5 0.3								
Total Stock Ch. & Misc	-0.1 0.0	2.3	-0.4	-0.9	-0.7	-2.4	-2.4	-0.8	0.3								
I ULAI GLUCK CII. & WISC	0.0	2.3	-1.9	-2.2	-2.5	-2.9	-2.4	-0.6	0.5								
Memo items:																	
Call on OPEC crude + Stock ch.6	29.6	23.4	27.3	27.7	29.5	30.7	28.8	29.3	28.4	28.5	29.2	28.8	29.4	29.5	30.5	31.2	30.1

Call on OPEC crude + Stock ch.⁶ 29.6 23.4 27.3 27.7 29.5 30.7 28.8 29.3 28.4 28.5 29.2 28.8 29.4 29.5 30.5 31.2 30.1 20.1 St. C. Contact - Clock Ch. 20.2 20.7 21.0 21.1 20.0 30.1 20.0 25.0 25.0 20.4 20.3 2

						Tabl	e 1a										
WORI	D OIL S	UPPL	Y AND	DEN					OM L	AST	MON	TH'S	TABL	E 1			
					(mi	llion barr	els per day)									
	2019	2020	1Q21	2Q21	3Q21	4Q21	2021	1Q22	2Q22	3Q22	4Q22	2022	1Q23	2Q23	3Q23	4Q23	2023
DECD DEMAND																	
Americas	-	-	0.1		0.1	0.1	0.1	-	0.2	0.5	0.3	0.3	-	0.1	0.2	0.2	0.
Europe	-	-	-		-	-	-	-	-0.1	-0.1	0.1	-	0.1	-	-	0.1	
Asia Oceania	-	-	-		-	-	-	-	-	0.1	0.1	-	-	-0.1	-	-	
Total OECD	-	-	0.1	0.1	0.1	0.1	0.1	-	0.1	0.5	0.4	0.2	0.1	-	0.2	0.2	0.1
NON-OECD DEMAND FSU													-	-		0.1	
Europe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-0.1	
China	-	-	-	-	-	-	-	-	-0.4	-0.7	-0.4	-0.4	-0.3	-0.3	-0.2	-0.3	-0.3
Other Asia		_					_		-0.4	-0.7	-0.4	-0.4	-0.5	-0.5	0.2	-0.5	-0.0
Americas	-	_	-	_	_	_	-	_	_	_	-0.1	-	0.1	0.1	0.1	0.1	0.1
Middle East	-	_			-	-	-		0.2	0.2	-	0.1	-	0.1	-	-	0.
Africa	-	-	-	-	-	-	-	-	- 0.2	- 0.2	-	-	-	-	-	-	
Total Non-OECD	-	-	-	-	-	-	-	-	-0.2	-0.5	-0.4	-0.3	-0.2	-0.1	-	-0.2	-0.1
Total Demand	-	-	0.1	0.1	0.1	0.1	0.1	-	-0.1	-	0.1	-	-0.1	-	0.1	-	
OECD SUPPLY																	
Americas	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-0.1	
Europe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Asia Oceania	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total OECD	-	-	-	0.1	-	-	-	-	-	-	-0.1	-	-0.1	-0.1	-	-0.2	-0.1
NON-OECD SUPPLY																	
FSU	-	-	-	-	-	-	-	-	-	-	-0.1	-	-	-	-	-	
Europe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
China	-	-	-	-	-	-	-	-	-	-0.1	-	-	-	-	-	-	
Other Asia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Americas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Middle East	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Africa	-	-	-	-	-	-	•	-				•	-				
Total Non-OECD	-		-	-	-	-	-	-	-	-	-0.1	-	-	-	-	-	
Processing gains Global Biofuels	-		-	-	-	-		-	-	-	-	-	-	-	-	-	
Total Non-OPEC Supply	-	-	-	0.1	-	-	-	-	-	-	-0.1	-	-0.1	-0.1	-	-0.2	-0.1
OPEC																	
Crude		. –					_										
NGLs	-	_	-	-	-	-	-	-	-								
Total OPEC		_			_		-	-	-	-	-	-	-	-	-	-	
Total Supply				0.1	-	-	-		- 0.1								
STOCK CHANGES AND MIS																	
	JELLANEU	03															
REPORTED OECD Industry	-	_	0.1	-		-0.1	-	-	-0.2								
Government	-		- 0.1		-	-0.1		-	-0.2								
Total	-	-	0.1	-	-	-0.1	-	-	-0.2								
Floating storage/Oil in transit	-	· -	0.1	-	-	-	-	-	-								
Miscellaneous to balance	-		-0.3					-									
Total Stock Ch. & Misc	-	-	-0.1	-	-0.1	-0.1	-0.1	-	0.1								
Memo items:																	
Call on OPEC crude + Stock c	h	_	0.1	-	0.1	0.1	0.1	-	-0.1	-	0.2	-	-	-	0.2	0.1	0.1
			0.1		0.1	0.1	.		0.1		0.2				5.2	5.1	0.1

Note: When submitting monthly oil statistics, OECD member countries may update data for prior periods. Similar updates to non-OECD data can also occur.

							Table '	1b									
	WOR	LD OIL	SUPPL	Y ANC	DEM		ncludir	•	EC+ b	ased o	n curre	ent agro	eement	:')			
	2019	2020	1Q21	2Q21	3Q21	4Q21	2021	1022	2Q22	3Q22	4Q22	2022	1Q23	2Q23	3Q23	4Q23	2023
Total Demand	100.6	91.5	94.5	96.4	98.9	100.9	97.7	99.5	98.4	99.9	100.9	99.7	100.2	101.0	102.6	103.3	101.8
OECD SUPPLY																	
Americas ²	22.8	21.9	21.5	22.4	22.4	23.4	22.4	23.0	23.4	24.0	24.5	23.7	24.4	24.8	25.1	25.4	24.9
Europe	3.4	3.6	3.6	3.1	3.4	3.4	3.4	3.3	3.0	3.1	3.3	3.2	3.4	3.3	3.3	3.5	3.4
Asia Oceania	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Total OECD (non-OPEC+)	26.7	26.0	25.7	26.0	26.4	27.2	26.3	26.8	26.9	27.6	28.3	27.4	28.3	28.6	28.9	29.3	28.8
NON-OECD SUPPLY																	
FSU ³	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Europe	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
China	3.9	4.0	4.1	4.1	4.1	4.0	4.1	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.2	4.3
Other Asia ⁴	2.5	2.3	2.2	2.2	2.2	2.1	2.2	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0
Latin America	5.3	5.3	5.3	5.3	5.4	5.2	5.3	5.4	5.5	5.7	5.8	5.6	5.9	5.9	6.0	6.0	6.0
Middle East ⁵	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0
Africa ⁶	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Total Non-OECD (non-OPEC+)	15.3	15.1	15.1	15.1	15.1	14.8	15.0	15.2	15.2	15.4	15.4	15.3	15.6	15.7	15.7	15.6	15.6
Processing Gains	2.4	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4
Global Biofuels	2.8	2.6	2.2	2.9	3.2	2.7	2.8	2.4	3.0	3.3	2.9	2.9	2.6	3.1	3.4	3.0	3.0
Total Non-OPEC+	47.2	45.9	45.0	46.2	47.0	47.0	46.3	46.7	47.4	48.6	49.0	48.0	48.8	49.7	50.4	50.3	49.8
OPEC+ CRUDE																	
Algeria	1.0	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Angola	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.1
Azerbaijan	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5
Bahrain	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Brunei	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Congo	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Equatorial Guinea	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Gabon	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Iran	2.4	2.0	2.3	2.4	2.5	2.5	2.4	2.5	2.5	2.5	2.6	2.5	2.6	2.6	2.6	2.6	2.6
Iraq	4.7	4.0	3.9	3.9	4.1	4.2	4.0	4.3	4.4	4.5	4.6	4.5	4.7	4.7	4.7	4.7	4.7
Kazakhstan	1.6	1.5	1.5	1.5	1.4	1.7	1.5	1.6	1.4	1.3	1.6	1.5	1.6	1.6	1.5	1.7	1.6
Kuwait	2.7	2.4	2.3	2.4	2.4	2.5	2.4	2.6	2.7	2.8	2.8	2.7	2.8	2.8	2.8	2.8	2.8
Libya	1.1	0.4	1.2	1.2	1.2	1.1	1.1	1.1	0.8	1.0	1.2	1.0	1.2	1.2	1.2	1.2	1.2
Malaysia	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Mexico	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.7	1.6	1.7	1.7	1.7	1.6	1.7
Nigeria	1.7	1.5	1.4	1.3	1.3	1.2	1.3	1.3	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1	1.2
Oman	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9
Russia	10.4	9.4	9.3	9.5	9.7	10.0	9.6	10.0	9.4	9.7	9.3	9.6	8.5	8.3	8.3	8.3	8.3
Saudi Arabia	9.9	9.2	8.5	8.6	9.6	9.9	9.2	10.2	10.5	10.9	11.0	10.7	11.0	11.0	11.0	11.0	11.0
South Sudan	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Sudan	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
UAE	3.2	2.9	2.7	2.7	2.8	2.9	2.8	3.1	3.2	3.4	3.4	3.3	3.4	3.4	3.4	3.4	3.4
Venezuela	0.9	0.5	0.5	0.5	0.6	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
OPEC+ Crude	45.9	40.6	40.0	40.5	42.0	43.3	41.5	44.1	43.4	44.5	45.0	44.3	44.3	44.0	43.9	44.0	44.1
OPEC+ NGLs & Condensate	7.4	7.2	7.4	7.4	7.3	7.5	7.4	7.8	7.8	7.7	7.8	7.8	7.8	7.8	7.9	7.9	7.9
OPEC+ Nonconventionals	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total OPEC+	53.4	47.9	47.5	48.0	49.4	51.0	49.0	52.0	51.3	52.4	52.9	52.1	52.2	52.0	51.9	52.0	52.0
Total Supply Oil	100.6	93.8	92.5	94.2	96.4	98.0	95.3	98.7	98.7	101.0	101.9	100.1	101.0	101.7	102.3	102.3	101.8
Memo items: Call on OPEC+ crude + Stock ch	45.9	38.3	42.0	42.7	44.5	46.2	43.9	44.0	43.1	43.5	44.0	43.9	43.5	43.4	44.3	45.0	44.0
Call on OPEC+ clude + Stock ch	45.9	30.3	42.0	42.7	44.0	40.2	43.9	44.9	43.1	43.5	44.0	43.9	43.5	43.4	44.3	45.0	44.0

Call on OPEU+ Crude + Stock Cn 45.9 38.3 4.2.0 4.2.1 44.5 40.2 43.9 44.9 44.9 45.1 43.5 1 From Sep 2022, OPEC+ supply reflects latest OPEC+ deal and individual country's sustainable capacity. Libya, Iran, Venezuela held at most recent level through 2023. 2 OECD Americas excludes Mexico 3 FSU excludes Russia, Kazahktara, Azerbaijan 4 Other Asia excludes Brunei, Malaysia 5 Middle East excludes Oman, Bahrain 6 Africa excludes Sudan, South Sudan

							Table 2									
				SU	MMA	RY OF	GLOBA		DEM	AND						
	2020	1Q21	2Q21	3Q21	4Q21	2021	1Q22	2Q22	3Q22	4Q22	2022	1Q23	2Q23	3Q23	4Q23	2023
Demand (mb/d)	00.47	22.00	04.40	04.00	05.44	04.00	04.70	04.00	05 40	05 40	05.00	24.00	05.40	05 44	05.00	05.40
Americas Europe	22.47 12.41	22.90 11.96	24.42 12.69	24.86 13.90	25.11 13.96	24.33 13.13	24.79 13.15	24.98 13.42	25.10 13.95	25.12 13.91	25.00 13.61	24.86 13.44	25.18 13.58	25.44 14.06	25.28 13.88	25.19 13.74
Asia Oceania	7.17	7.68	7.00	7.07	7.78	7.38	7.85	6.98	7.24	7.77	7.46	8.03	7.18	7.43	7.93	7.64
Total OECD	42.05	42.54	44.11	45.84	46.85	44.85	45.79	45.39	46.29	46.80	46.07	46.33	45.93	46.93	47.09	46.57
Asia Aidalla Faat	26.92	28.62	28.67	28.34	29.59	28.81	29.53	28.21	28.33	29.56	28.91	29.94	30.35	30.32	31.42	30.51
/liddle East \mericas	8.07 5.45	8.16 5.74	8.43 5.81	8.89 6.15	8.43 6.11	8.48 5.95	8.52 5.94	9.18 6.09	9.56 6.13	8.76 6.12	9.01 6.07	8.67 5.93	9.28 6.12	9.54 6.23	8.84 6.20	9.09 6.12
SU	4.56	4.63	4.74	4.97	5.05	4.85	4.71	4.72	4.87	4.71	4.75	4.48	4.53	4.79	4.80	4.65
frica	3.77	4.03	3.94	3.90	4.10	3.99	4.21	4.09	3.98	4.14	4.10	4.09	4.06	4.01	4.16	4.08
urope otal Non-OECD	0.72 49.49	0.76 51.94	0.75 52.33	0.78 53.03	0.79 54.07	0.77 52.85	0.77 53.68	0.76 53.05	0.79 53.66	0.80 54.09	0.78 53.62	0.76 53.87	0.77 55.10	0.79 55.70	0.80 56.23	0.78 55.23
Vorld	49.49 91.54	94.48	96.44	98.87	100.92	97.70	99.46	98.44	99.95	100.89	99.69	100.20	101.04	102.63		101.81
f which:	••.	•				••					00.00					
United States ¹	18.19	18.58	20.13	20.30	20.54	19.89	20.22	20.27	20.24	20.46	20.30	20.18	20.40	20.48	20.52	20.40
Europe five ²	6.91	6.68	7.07	7.66	7.81	7.31	7.38	7.58	7.75	7.80	7.63	7.56	7.61	7.77	7.79	7.68
China	14.20 3.36	14.88 3.77	15.59 3.07	15.59 3.17	15.64 3.66	15.43 3.41	15.40 3.70	14.23 3.03	14.93 3.21	15.48 3.60	15.01 3.38	15.43 3.80	15.86 3.08	16.09 3.32	16.53 3.68	15.98 3.47
Japan India	3.36 4.58	3.77 5.04	3.07 4.49	4.52	5.02	3.41 4.77	3.70 5.25	3.03 5.14	3.21 4.91	3.60 5.27	3.38 5.14	3.80 5.43	3.08 5.40	3.32 5.13	3.68 5.47	3.47 5.36
Russia	3.42	3.50	3.58	3.76	3.76	3.65	3.63	3.61	3.72	3.50	3.62	3.36	3.38	3.62	3.57	3.48
Brazil	2.87	2.91	2.92	3.13	3.06	3.01	2.95	2.99	3.04	3.06	3.01	2.96	3.03	3.09	3.11	3.05
Saudi Arabia Canada	3.45 2.19	3.24 2.19	3.53 2.16	3.76 2.43	3.44 2.33	3.49 2.28	3.34 2.26	3.83 2.19	4.06 2.41	3.59 2.31	3.71 2.29	3.40 2.32	3.89 2.25	4.09 2.49	3.63 2.40	3.76 2.37
Korea	2.19	2.19	2.16	2.43	2.55	2.28	2.20	2.19	2.41	2.51	2.29	2.32	2.25	2.49	2.40	2.37
Mexico	1.60	1.63	1.66	1.61	1.72	1.65	1.76	1.99	1.93	1.83	1.88	1.82	1.99	1.95	1.83	1.90
Iran	1.76	1.90	1.81	1.81	1.81	1.83	1.91	1.84	1.83	1.81	1.85	1.91	1.85	1.84	1.81	1.85
Total	64.98	66.83	68.49	70.32	71.48	69.30	70.53	69.19	70.61	71.40	70.44	70.96	71.35	72.51	73.09	71.98
% of World	71.0%	70.7%	71.0%	71.1%	70.8%	70.9%	70.9%	70.3%	70.7%	70.8%	70.7%	70.8%	70.6%	70.6%	70.7%	70.7%
mericas	-11.6	-5.8	22.8	9.9	9.0	8.3	8.2	2.3	1.0	0.0	2.7	0.3	0.8	1.4	0.6	0.8
urope	-13.3	-10.1	15.4	8.1	11.8	5.8	9.9	5.7	0.4	-0.3	3.6	2.2	1.2	0.8	-0.2	0.9
sia Oceania	-9.8	-2.6	5.6	4.4	5.5	3.0	2.3	-0.2	2.3	-0.2	1.0	2.3	2.7	2.7	2.2	2.4
otal OECD sia	-11.8	-6.5 12.1	17.6 9.6	8.5 3.8	9.2 3.2	6.7 7.0	7.6 3.2	2.9 -1.6	1.0 0.0	-0.1 -0.1	2.7 0.4	1.2 1.4	1.2 7.6	1.4 7.0	0.6 6.3	1.1 5.5
iddle East	-4.3 -8.7	-1.8	9.6 12.9	5.0 5.7	3.2 4.0	5.0	3.2 4.4	-1.6	7.4	-0.1	6.2	1.4	1.1	-0.1	0.3	0.9
mericas	-13.3	2.3	19.0	10.6	6.4	9.2	3.5	4.9	-0.3	0.0	2.0	-0.1	0.5	1.7	1.4	0.9
SU	-3.5	-0.2	14.3	5.1	6.8	6.3	1.8	-0.3	-2.1	-6.8	-2.0	-4.9	-4.1	-1.5	2.0	-2.1
rica Jrope	-8.6 -7.5	-1.3 4.1	15.1 12.3	5.7 5.9	6.0 4.4	6.0 6.5	4.3 2.2	3.7 1.0	2.0 1.4	1.1 1.6	2.8 1.5	-2.6 -1.9	-0.6 0.4	0.9 0.4	0.5 0.5	-0.5 -0.1
otal Non-OECD	-6.4	6.2	12.0	5.2	4.2	6.8	3.3	1.4	1.2	0.0	1.5	0.4	3.9	3.8	4.0	3.0
orld	-9.0	0.1	14.5	6.7	6.5	6.7	5.3	2.1	1.1	-0.0	2.0	0.7	2.6	2.7	2.4	2.1
nnual Change (mb	o/d)															
mericas	-2.95	-1.41	4.53	2.25	2.06	1.86	1.88	0.56	0.24	0.01	0.67	0.07	0.19	0.34	0.16	0.19
urope	-1.90	-1.35	1.69	1.05	1.47	0.72	1.19	0.73	0.05	-0.04	0.48	0.29	0.16	0.11	-0.03	0.13
sia Oceania otal OECD	-0.78 -5.63	-0.21 -2.97	0.37 6.59	0.30 3.59	0.40 3.94	0.22 2.80	0.18 3.25	-0.01 1.28	0.16 0.45	-0.01 -0.05	0.08 1.22	0.18 0.54	0.19 0.55	0.19 0.64	0.17 0.29	0.18 0.50
sia	-1.20	3.09	2.51	1.04	0.92	1.89	0.91	-0.46	-0.01	-0.03	0.10	0.41	2.14	1.99	1.86	1.60
iddle East	-0.77	-0.15	0.96	0.48	0.33	0.41	0.36	0.75	0.66	0.33	0.53	0.15	0.11	-0.01	0.08	0.08
mericas SU	-0.84 -0.16	0.13 -0.01	0.93 0.59	0.59 0.24	0.37 0.32	0.50 0.29	0.20 0.08	0.29 -0.01	-0.02 -0.10	0.00 -0.34	0.12 -0.10	-0.01 -0.23	0.03 -0.20	0.10 -0.08	0.09 0.09	0.05 -0.10
frica	-0.16	-0.01	0.59	0.24	0.32	0.29	0.08	-0.01	-0.10	-0.34 0.05	-0.10	-0.23	-0.20	-0.08	0.09	-0.10
urope	-0.06	0.03	0.08	0.04	0.03	0.05	0.02	0.01	0.01	0.01	0.01	-0.01	0.00	0.00	0.00	0.00
otal Non-OECD	-3.39	3.03	5.59	2.62	2.20	3.36	1.74	0.72	0.63	0.02	0.77	0.19	2.05	2.04	2.14	1.61
orld	-9.01	0.06	12.19	6.21	6.14	6.16	4.99	2.00	1.08	-0.03	1.99	0.73	2.60	2.68	2.44	2.12
evisions to Oil De mericas	mand fror 0.00	n Last M 0.13	onth's I 0.09	Report (0.09	mb/d) 0.12	0.14	0.00	0.22	0.51	0.28	0.25	0.03	0.13	0.22	0.18	0.14
mericas urope	0.00	0.13	0.09	0.09	0.12	0.11 0.00	0.00	-0.22	-0.13	0.28	0.25 -0.04	0.03	-0.03	-0.03	0.18	0.14
sia Oceania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.05	0.03	0.01	-0.07	-0.04	-0.02	-0.03
otal OECD	-	0.13	0.09	0.09	0.12	0.11	-0.00	0.12	0.45	0.42	0.25	0.11	0.03	0.15	0.23	0.13
sia	0.00	0.00	0.00	0.00	0.00	0.00	0.03	-0.36	-0.72	-0.42	-0.37	-0.30	-0.26	-0.16	-0.25	-0.24
iddle East mericas	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.17 0.01	0.17 0.02	0.01 0.01	0.09 0.01	-0.02 0.08	0.09 0.09	0.04 0.09	-0.02 0.09	0.02
SU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.02	0.01	0.01	0.05	0.03	0.09	-0.06	0.03
frica	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	-0.01	0.00
urope	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
otal Non-OECD	-	-	-0.00	-0.00	0.00	-	0.03	-0.18	-0.50	-0.36	-0.25	-0.20	-0.06	-0.03	-0.24	-0.13 -0.00
/ord																
/orld	-	0.13	0.09	0.09	0.12	0.11	0.03	-0.06	-0.05	0.06	-0.01	-0.09	-0.03	0.12	-0.01	-0.00
/orld evisions to Oil De /orld	- mand Gro 0.00						0.03 -0.10	-0.06	-0.05	0.06	-0.01	-0.09 -0.12	-0.03	0.12	-0.01	0.00

1 US figures exclude US territories. 2 France, Germany, Italy, Spain and UK

				Та	able 2a						
			OECD F		NAL OI		AND ¹				
										Latest m	onth vs.
	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22 ²	May 22	Jun 21
Americas											
LPG and ethane	3.52	3.69	3.57	3.96	4.18	3.61	3.63	3.53	3.67	0.13	0.11
Naphtha	0.26	0.25	0.26	0.25	0.22	0.21	0.22	0.21	0.20	-0.01	-0.07
Motor gasoline	9.53	10.34	10.73	10.58	10.04	10.71	10.44	10.80	10.89	0.09	-0.06
Jet and kerosene	1.25	1.56	1.73	1.74	1.69	1.87	1.79	1.82	2.01	0.19	0.41
Gasoil/diesel oil	4.88	5.06	5.00	5.15	5.31	5.15	5.04	5.14	5.26	0.12	0.22
Residual fuel oil	0.41	0.55	0.57	0.59	0.59	0.54	0.53	0.56	0.54	-0.02	-0.08
Other products	2.63	2.87	3.01	2.85	2.75	2.90	2.90	2.69	3.12	0.43	0.04
Total	22.47	24.33	24.86	25.11	24.79	24.98	24.54	24.74	25.68	0.94	0.58
Europe											
LPG and ethane	1.07	1.10	1.11	1.08	1.11	0.94	0.94	0.88	1.01	0.13	-0.11
Naphtha	1.06	1.12	1.09	1.17	1.15	1.01	1.00	1.04	0.98	-0.06	0.04
Motor gasoline	1.76	1.93	2.20	2.02	1.88	2.08	2.01	2.04	2.18	0.14	0.02
Jet and kerosene	0.74	0.86	1.03	1.07	1.02	1.29	1.23	1.26	1.36	0.10	0.58
Gasoil/diesel oil	5.93	6.26	6.51	6.69	6.14	6.10	6.12	6.04	6.14	0.10	-0.40
Residual fuel oil	0.69	0.76	0.78	0.76	0.79	0.83	0.80	0.87	0.83	-0.04	0.08
Other products	1.17	1.10	1.17	1.15	1.07	1.17	1.12	1.19	1.19	-0.01	0.02
Total	12.41	13.13	13.90	13.96	13.15	13.42	13.22	13.34	13.69	0.36	0.24
Asia Oceania											
LPG and ethane	0.76	0.77	0.72	0.78	0.94	0.77	0.80	0.79	0.73	-0.05	0.00
											-0.06
Naphtha	1.81	1.95 1.35	1.98 1.34	2.06	1.93 1.28	1.78 1.30	1.86 1.25	1.73 1.36	1.75 1.30	0.02 -0.06	-0.06 -0.06
Motor gasoline	1.38			1.37							
Jet and kerosene	0.61	0.61	0.42	0.72	0.87	0.51	0.52	0.51	0.49	-0.02	0.06
Gasoil/diesel oil	1.83 0.42	1.89 0.45	1.83	1.98	1.95	1.86 0.45	1.80 0.46	1.90	1.87	-0.03 0.04	-0.03 0.06
Residual fuel oil		0.45	0.43 0.35	0.48	0.52 0.36	0.45	0.46	0.42 0.32	0.46	0.04	0.06
Other products Total	0.36 7.17	7.38	0.35 7.07	0.39 7.78	7.85	6.98	6.93	7.03	0.38 6.99	-0.05	-0.01
	7.17	1.30	7.07	1.10	7.05	0.90	0.95	7.03	0.99	-0.05	-0.08
OECD											
LPG and ethane	5.35	5.56	5.40	5.81	6.23	5.32	5.36	5.20	5.41	0.21	-0.06
Naphtha	3.12	3.33	3.34	3.48	3.30	3.00	3.08	2.98	2.93	-0.05	-0.09
Motor gasoline	12.66	13.63	14.26	13.97	13.20	14.09	13.69	14.20	14.37	0.17	-0.09
Jet and kerosene	2.60	3.03	3.19	3.53	3.59	3.67	3.54	3.59	3.87	0.27	1.05
Gasoil/diesel oil	12.65	13.21	13.35	13.82	13.39	13.11	12.96	13.09	13.28	0.19	-0.21
Residual fuel oil	1.52	1.76	1.78	1.83	1.91	1.82	1.78	1.85	1.83	-0.02	0.06
Other products	4.16	4.33	4.53	4.40	4.17	4.38	4.26	4.20	4.68	0.48	0.08
Total	42.05	44.85	45.84	46.85	45.79	45.39	44.69	45.11	46.37	1.25	0.73

Demand, measured as deliveries from refineries and primary stocks, comprises inland deliveries, international bunkers and refinery fuel. It includes crude for direct burning, oil from non-conventional sources and other sources of supply. Jet/kerosene comprises jet kerosene and non-aviation kerosene. Gasoil comprises diesel, light heating oil and other gasoils. North America comprises US 50 states, US territories, Mexico, Canada and Chile.
 Latest official OECD submissions (MOS).

				Та	ble 2b						
		OIL D	EMAND IN					S ¹			
				(million	barrels per o	iay)					
	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22 ²	Latest mo May 22	onth vs. Jun 21
United States ³		2021	3421	49(21	1922	2922	Αρι 22	Way 22	Juli 22	Widy 22	Juli 21
LPG and ethane	2.74	2.88	2.75	3.13	3.37	2.89	2.95	2.81	2.92	0.10	0.16
Naphtha	0.18	0.19	0.20	0.18	0.15	0.14	0.15	0.14	0.13	-0.01	-0.08
Motor gasoline Jet and kerosene	8.05 1.08	8.82 1.38	9.14 1.52	8.98 1.50	8.47	9.00	8.75 1.54	9.11 1.58	9.13 1.71	0.02 0.13	-0.23 0.28
Gasoil/diesel oil	3.78	3.97	3.90	4.03	1.46 4.14	1.61 3.89	3.81	3.87	3.99	0.13	0.28
Residual fuel oil	0.21	0.31	0.35	0.40	0.38	0.31	0.30	0.34	0.29	-0.06	-0.06
Other products	2.13	2.35	2.45	2.31	2.24	2.43	2.45	2.22	2.61	0.39	0.07
Total	18.19	19.89	20.30	20.54	20.22	20.27	19.96	20.08	20.77	0.70	0.19
Japan LPG and ethane	0.39	0.40	0.35	0.41	0.49	0.40	0.43	0.41	0.38	-0.03	-0.01
Naphtha	0.66	0.70	0.67	0.76	0.63	0.56	0.54	0.55	0.60	0.05	-0.01
Motor gasoline	0.79	0.73	0.75	0.73	0.67	0.68	0.67	0.67	0.69	0.02	-0.01
Jet and kerosene	0.37	0.37	0.22	0.46	0.58	0.25	0.28	0.24	0.22	-0.03	0.00
Diesel Other gasoil	0.41 0.31	0.42 0.32	0.42 0.29	0.44 0.35	0.43 0.37	0.41 0.30	0.41 0.31	0.39 0.29	0.43 0.30	0.04 0.02	0.00 0.01
Residual fuel oil	0.22	0.25	0.23	0.26	0.29	0.24	0.25	0.23	0.25	0.02	0.03
Other products	0.21	0.22	0.24	0.25	0.23	0.18	0.11	0.19	0.24	0.06	0.07
Total	3.36	3.41	3.17	3.66	3.70	3.03	3.01	2.95	3.12	0.17	0.07
Germany		0.45				a (-			o 1-		
LPG and ethane	0.11	0.12	0.12	0.11	0.11	0.12	0.12 0.34	0.11	0.12	0.01 -0.04	-0.01
Naphtha Motor gasoline	0.28 0.46	0.32 0.45	0.31 0.49	0.34 0.46	0.35 0.43	0.33 0.45	0.34	0.34 0.41	0.30 0.51	-0.04 0.09	0.06 0.03
Jet and kerosene	0.10	0.13	0.45	0.40	0.45	0.20	0.19	0.41	0.21	0.03	0.08
Diesel	0.71	0.72	0.78	0.76	0.67	0.67	0.68	0.62	0.72	0.11	-0.04
Other gasoil	0.36	0.27	0.26	0.36	0.28	0.25	0.24	0.27	0.23	-0.04	-0.02
Residual fuel oil Other products	0.05 0.08	0.05 0.07	0.05 0.08	0.06 0.08	0.06 0.06	0.05 0.07	0.06 0.07	0.06 0.09	0.05 0.04	-0.01 -0.05	0.00 -0.03
Total	2.15	2.13	2.23	2.34	2.11	2.14	2.14	2.09	2.18	0.09	0.03
Italy											0.01
LPG and ethane	0.09	0.11	0.10	0.12	0.13	0.10	0.11	0.09	0.10	0.00	0.00
Naphtha	0.10	0.09	0.08	0.10	0.10	0.07	0.10	0.08	0.05	-0.03	-0.02
Motor gasoline	0.14	0.17	0.20	0.18	0.16	0.19	0.18	0.18	0.19	0.01	0.00
Jet and kerosene Diesel	0.05 0.39	0.06 0.48	0.09 0.51	0.07 0.51	0.07 0.48	0.10 0.49	0.09 0.48	0.09 0.49	0.10 0.51	0.01 0.02	0.03 -0.01
Other gasoil	0.07	0.07	0.07	0.07	0.40	0.45	0.04	0.45	0.06	0.02	-0.02
Residual fuel oil	0.06	0.09	0.10	0.09	0.09	0.10	0.10	0.10	0.11	0.01	0.01
Other products	0.14	0.11	0.11	0.12	0.10	0.13	0.11	0.14	0.15	0.01	0.03
Total	1.03	1.18	1.26	1.26	1.17	1.23	1.21	1.22	1.27	0.04	0.01
France							0.40				
LPG and ethane Naphtha	0.11 0.12	0.11 0.14	0.11 0.13	0.10 0.16	0.12 0.13	0.10 0.09	0.10 0.06	0.09 0.08	0.10 0.12	0.01 0.03	-0.02 0.00
Motor gasoline	0.12	0.21	0.13	0.10	0.13	0.03	0.00	0.00	0.25	0.03	0.00
Jet and kerosene	0.09	0.09	0.11	0.11	0.10	0.11	0.11	0.12	0.12	0.00	0.04
Diesel	0.67	0.73	0.77	0.75	0.71	0.75	0.73	0.74	0.77	0.03	-0.03
Other gasoil	0.14 0.03	0.13 0.03	0.11 0.03	0.16 0.03	0.16 0.03	0.07 0.04	0.09 0.04	0.06 0.03	0.06	0.00 0.01	-0.02 0.01
Residual fuel oil Other products	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.04 0.13	0.01	0.01
Total	1.43	1.55	1.64	1.62	1.54	1.50	1.45	1.47	1.59	0.12	-0.02
United Kingdom											
LPG and ethane	0.12	0.11	0.11	0.11	0.12	0.12	0.12	0.10	0.13	0.02	0.04
Naphtha	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Motor gasoline Jet and kerosene	0.22 0.18	0.25 0.18	0.28 0.16	0.28 0.24	0.26 0.24	0.28 0.27	0.26 0.27	0.28 0.27	0.29 0.26	0.01 0.00	0.02 0.14
Diesel	0.13	0.13	0.49	0.24	0.24	0.27	0.53	0.27	0.20	0.00	-0.02
Other gasoil	0.11	0.13	0.14	0.12	0.11	0.09	0.11	0.09	0.08	-0.01	-0.05
Residual fuel oil	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.00	0.01
Other products	0.10	0.10	0.11	0.10	0.11	0.10	0.10	0.11	0.10	-0.01	-0.02
Total	1.21	1.26	1.30	1.35	1.31	1.39	1.41	1.37	1.40	0.03	0.11
Canada LPG and ethane	0.43	0.45	0.46	0.45	0.43	0.36	0.35	0.35	0.40	0.05	-0.04
Naphtha	0.43	0.45	0.46	0.45	0.43	0.36	0.35	0.35	0.40	0.05	-0.04
Motor gasoline	0.73	0.76	0.84	0.76	0.74	0.80	0.78	0.78	0.84	0.06	0.00
Jet and kerosene	0.08	0.09	0.11	0.12	0.10	0.13	0.12	0.11	0.16	0.05	0.09
Diesel	0.27	0.27	0.27	0.26	0.27	0.27	0.27	0.26	0.27	0.01	0.00
Other gasoil Residual fuel oil	0.30 0.03	0.30 0.03	0.33 0.02	0.30 0.03	0.31 0.04	0.26 0.03	0.27 0.03	0.24 0.03	0.28 0.04	0.04 0.01	-0.04 0.01
Other products	0.03	0.03	0.02	0.03	0.04	0.03	0.03	0.03	0.04	0.01	-0.01
Total	2.19	2.28	2.43	2.33	2.26	2.19	2.11	2.10	2.36	0.27	0.01

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OPEC Crude Oil Saudi Arabia Iran Iraq UAE Kuwait Angola Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total OPEC ³ Total OPEC ³ OCCD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Source Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Source Canada Chile Europe UK Norway Others Canada Chile Compo Canada Chile Chile	9.15 2.42 4.03 2.76 2.42 1.12 1.31 0.27 0.18 0.01 0.27 0.10 0.61 26.43 0.25 5.12 1.55 2.4.38 6.6.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	2022 5.35 25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91 0.86	2023 5.45 27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	Table 3 .D OIL PR0 (million barrels provided in the second se	DUCT	CION 3Q22 5.38 26.00 18.17 2.03 5.79 0.01 3.14 0.79	4Q22 5.39 26.55 18.58 2.09 5.88 0.01 3.34 3.34	1Q23 1Q23 5.43 26.53 18.67 2.09 5.77 0.01 3.36	Jun 22 10.54 2.50 4.47 3.38 2.68 1.18 1.16 0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01 2.81	10.81 2.49 4.53 3.33 2.77 1.18 1.08 0.65 1.02 0.26 0.19 0.10 0.28 0.19 0.10 0.60 29.04 0.28 5.38 34.42 25.83 18.04 2.5.77 0.01 3.11	Aug 22 10.96 2.52 4.54 3.40 2.80 1.18 0.98 1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16 0.77
OPEC Crude Oil Saudi Arabia Iran Iraq UAE Kuwait Angola Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil 2 Total Crude Oil 2 Total NGLs ² Total OPEC ³ Cotal NGLs ² Total OPEC ⁴ OECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	9.15 2.42 4.03 2.76 2.42 1.12 1.31 1.15 0.91 0.27 0.18 0.01 0.61 26.43 0.25 5.12 1.55 5.59 0.01 3.38 0.89 2.04 0.45	5.35 25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	2023 5.45 27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	(million barrels p 1Q22 10.20 2.55 4.29 3.09 2.61 1.16 1.30 1.08 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	er day) 2Q22 10.49 2.47 4.45 3.24 2.67 1.17 1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	3Q22 5.38 26.00 18.17 2.03 5.79 0.01 3.14	5.39 26.55 18.58 2.09 5.88 0.01 3.34	5.43 26.53 18.67 2.09 5.77 0.01	10.54 2.50 4.47 3.38 2.68 1.18 1.16 0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	10.81 2.49 4.53 3.33 2.77 1.18 1.08 0.65 1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.5.77 0.01 3.11	10.96 2.52 4.54 3.40 2.80 0.1.18 0.98 1.08 1.08 1.08 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
OPEC Crude Oil Saudi Arabia Iran Iraq UAE Kuwait Angola Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil 2 do which Neutral Zone ³ Total NGLs ² Total NGLs ² Total NGLs ² Total NGLS ² Total NGLS ² Total OPEC ³ OECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	9.15 2.42 4.03 2.76 2.42 1.12 1.31 1.15 0.91 0.27 0.18 0.01 0.61 26.43 0.25 5.12 1.55 5.59 0.01 3.38 0.89 2.04 0.45	5.35 25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	5.45 27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	1Q22 10.20 2.55 4.29 3.09 2.61 1.16 1.30 1.08 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	2Q22 10.49 2.47 4.45 3.24 2.67 1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	5.38 26.00 18.17 2.03 5.79 0.01 3.14	5.39 26.55 18.58 2.09 5.88 0.01 3.34	5.43 26.53 18.67 2.09 5.77 0.01	10.54 2.50 4.47 3.38 2.68 1.18 1.16 0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	10.81 2.49 4.53 3.33 2.77 1.18 1.08 0.65 1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.5.77 0.01 3.11	10.96 2.52 4.54 3.40 2.80 0.1.18 0.98 1.08 1.08 1.08 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
OPEC Crude Oil Saudi Arabia Iran Iraq UAE Kuwait Angola Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil 2 do which Neutral Zone ³ Total NGLs ² Total NGLs ² Total NGLs ² Total NGLS ² Total NGLS ² Total OPEC ³ OECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	9.15 2.42 4.03 2.76 2.42 1.12 1.31 1.15 0.91 0.27 0.18 0.01 0.61 26.43 0.25 5.12 1.55 5.59 0.01 3.38 0.89 2.04 0.45	5.35 25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	5.45 27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	10.20 2.55 4.29 3.09 2.61 1.16 1.30 1.08 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	10.49 2.47 4.45 3.24 2.67 1.17 1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	5.38 26.00 18.17 2.03 5.79 0.01 3.14	5.39 26.55 18.58 2.09 5.88 0.01 3.34	5.43 26.53 18.67 2.09 5.77 0.01	10.54 2.50 4.47 3.38 2.68 1.18 1.16 0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	10.81 2.49 4.53 3.33 2.77 1.18 1.08 0.65 1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.5.77 0.01 3.11	10.96 2.52 4.54 3.40 2.80 0.1.18 0.98 1.08 1.08 1.08 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Crude Oil Saudi Arabia Iran Iraq UAE Kuwait Angola Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Fotal Crude Oil Cotal NGLs ² Fotal OPEC ³ ONO-OPEC ⁴ DECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Fotal OECD 2 NON-OECD Cormer USSR Russia Azerbaijan Kazakhstan	2.42 4.03 2.76 2.42 2.42 1.11 1.15 0.27 0.18 0.27 0.18 0.25 5.12 1.55 24.38 46.82 1.95 5.59 0.01 3.38 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	2.55 4.29 3.09 2.61 1.16 1.30 1.08 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	2.47 4.45 3.24 2.67 1.17 1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	2.50 4.47 3.38 2.68 1.18 1.16 0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	2.49 4.53 3.33 2.77 1.18 1.08 0.65 1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	2.52 4.54 3.40 2.80 1.08 1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Saudi Arabia Iran Iraq UAE Kuwait Angola Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil 2 fotal Crude Oil 2 fotal NGLs ² Total OPEC ³ SNON-OPEC ⁴ DECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	2.42 4.03 2.76 2.42 2.42 1.11 1.15 0.27 0.18 0.27 0.18 0.25 5.12 1.55 24.38 46.82 1.95 5.59 0.01 3.38 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	2.55 4.29 3.09 2.61 1.16 1.30 1.08 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	2.47 4.45 3.24 2.67 1.17 1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	2.50 4.47 3.38 2.68 1.18 1.16 0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	2.49 4.53 3.33 2.77 1.18 1.08 0.65 1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	2.52 4.54 3.40 2.80 1.08 1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Iran Iraq UAE Kuwait Angola Angola Angola Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil 2 of which Neutral Zone ³ Total OPEC ³ 3 ONN-OPEC ⁴ OECD Americas 2 United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Pormer USSR Russia Azerbaijan Kazakhstan State S	2.42 4.03 2.76 2.42 2.42 1.11 1.15 0.27 0.18 0.27 0.18 0.25 5.12 1.55 24.38 46.82 1.95 5.59 0.01 3.38 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	2.55 4.29 3.09 2.61 1.16 1.30 1.08 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	2.47 4.45 3.24 2.67 1.17 1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	2.50 4.47 3.38 2.68 1.18 1.16 0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	2.49 4.53 3.33 2.77 1.18 1.08 0.65 1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	2.52 4.54 3.40 2.80 1.08 1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Iraq UAE Kuwait Angola Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil 2 of which Neutral Zone ⁷ Total OPEC ³ 3 NON-OPEC ⁴ OECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Azerbaijan Kazakhstan	4.03 2.76 2.42 1.12 1.13 1.15 0.91 0.27 0.18 0.25 5.12 2.438 6.82 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	4.29 3.09 2.61 1.16 1.30 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	4.45 3.24 2.67 1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	4.47 3.38 2.68 1.18 1.16 0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	4.53 3.33 2.77 1.18 0.65 1.02 0.26 0.10 0.63 29.04 0.28 34.42 25.83 18.04 2.01 5.77 0.01 3.11	4.54 3.40 2.80 1.18 0.98 1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01
UAE Kuwait Angola Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil 2 of which Neutral Zone ³ Total OPEC ³ SNON-OPEC ⁴ OECD Americas United States United States Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	2.76 2.42 1.12 1.31 1.15 0.91 0.27 0.18 0.00 0.01 26.43 0.25 5.12 1.55 24.38 6.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	3.09 2.61 1.16 1.30 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	3.24 2.67 1.17 1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	3.38 2.68 1.18 1.16 0.63 1.02 0.28 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	3.33 2.77 1.18 1.08 0.65 1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.5.83 18.04 2.5.77 0.01 3.11	3.40 2.80 1.18 0.98 1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.31 0.01 3.16
Kuwait Angola Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil of which Neutral Zone ' Total NGLs ² Total OPEC ³ 3 NON-OPEC ⁴ OECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	2.42 1.12 1.31 0.27 0.18 0.27 0.18 0.20 26.43 0.25 5.12 1.55 5.12 2.4.38 6.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	2.61 1.16 1.30 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	2.67 1.17 1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	2.68 1.18 1.16 0.63 1.02 0.28 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	2.77 1.18 1.08 0.65 1.02 0.26 0.19 0.10 0.63 29.04 29.04 34.42 25.83 18.04 2.01 5.77 0.01 3.11	2.80 1.18 0.98 1.08 1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.31 18.22
Nigeria Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil 2 of which Neutral Zone ⁷ Total OPEC ³ 3 NON-OPEC ⁴ DECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	1.31 1.15 0.91 0.27 0.18 0.27 0.18 0.25 5.12 1.55 5.12 1.55 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	1.30 1.08 0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	1.15 0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	1.16 0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	1.08 0.65 1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	0.98 1.08 1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Libya Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil 2 of which Neutral Zone ⁷ Total OPEC ³ 3 NON-OPEC ⁴ OECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	1.15 0.91 0.27 0.18 0.10 0.61 26.43 0.25 5.12 1.55 2.438 6.822 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	1.08 0.99 0.27 0.19 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	0.77 1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	0.63 1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	0.65 1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	1.08 1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Algeria Congo Gabon Equatorial Guinea Venezuela Total Crude Oil of which Neutral Zone ⁷ Total OPEC ³ 3 NON-OPEC ⁴ OECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	0.91 0.27 0.18 0.10 0.61 26.43 0.25 5.12 1.55 24.38 6.82 1.95 5.59 0.01 3.38 0.21 3.38 0.23	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	0.99 0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	1.01 0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	1.02 0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	1.02 0.26 0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	1.02 0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Congo Gabon Equatorial Guinea Venezuela fotal Crude Oil of which Neutral Zone ³ Total NGLs ² Total OPEC ³ 3 NON-OPEC ⁴ DECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	0.27 0.18 0.10 0.61 26.43 0.25 5.12 1.55 24.38 6.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	0.27 0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	0.27 0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	0.28 0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	0.26 0.19 0.63 29.04 0.28 34.42 25.83 18.04 2.01 5.77 0.01 3.11	0.27 0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Gabon Equatorial Guinea Venezuela Total Crude Oil of which Neutral Zone ⁷ Total NGLs ² Total OPEC ³ 3NON-OPEC ⁴ DECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	0.18 0.10 0.61 26.43 0.25 5.12 1.55 24.38 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	0.19 0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	0.18 0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	0.19 0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	0.19 0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	0.20 0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Equatorial Guinea Venezuela Total Crude Oil 2 of which Neutral Zone ¹ Total NGLs ² Total OPEC ³ 3 NON-OPEC ⁴ DECD Americas 2 United States 4 Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Azerbaijan Kazakhstan	0.10 0.61 26.43 0.25 5.12 1.55 24.38 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	0.09 0.72 28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	0.09 0.74 28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	0.09 0.73 28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	0.10 0.63 29.04 0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	0.08 0.69 29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Venezuela Fotal Crude Oil of which Neutral Zone Total NGLs ² Total OPEC ³ Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Fotal OECD Former USSR Russia Azerbaijan Kazakhstan	26.43 0.25 5.12 1.55 24.38 16.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	28.54 0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	28.70 0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	28.85 0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	29.04 0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	29.72 0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
of which Neutral Zone ' Total NGLs ² Total OPEC ³ NON-OPEC ⁴ DECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD Former USSR Russia Azerbaijan Kazakhstan	0.25 5.12 1.55 24.38 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	0.27 5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	0.28 5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	0.28 5.36 34.21 25.58 17.99 2.01 5.58 0.01	0.28 5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	0.32 5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Total NGLs ² Total OPEC ³ Total OPEC ⁴ OECD Americas United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD Former USSR Russia Azerbaijan Kazakhstan	5.12 1.55 2 4.38 16.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	5.27 33.81 24.99 17.25 2.00 5.73 0.01 3.30 0.91	5.35 34.05 25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	5.36 34.21 25.58 17.99 2.01 5.58 0.01	5.38 34.42 25.83 18.04 2.01 5.77 0.01 3.11	5.37 35.09 26.07 18.22 2.04 5.81 0.01 3.16
Total OPEC ³ 3 NON-OPEC ⁴ OECD Americas 2 United States 4 Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	1.55 24.38 16.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	25.73 17.95 2.03 5.74 0.01 3.20 0.86 1.91	27.00 19.10 2.07 5.82 0.01 3.35 0.81 2.12	24.99 17.25 2.00 5.73 0.01 3.30 0.91	25.37 17.80 1.99 5.57 0.01 3.03 0.86	26.00 18.17 2.03 5.79 0.01 3.14	26.55 18.58 2.09 5.88 0.01 3.34	26.53 18.67 2.09 5.77 0.01	34.21 25.58 17.99 2.01 5.58 0.01	34.42 25.83 18.04 2.01 5.77 0.01 3.11	26.07 18.22 2.04 5.81 0.01 3.16
NON-OPEC ⁴ DECD Americas 2 United States 4 Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	24.38 16.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	17.95 2.03 5.74 0.01 3.20 0.86 1.91	19.10 2.07 5.82 0.01 3.35 0.81 2.12	24.99 17.25 2.00 5.73 0.01 3.30 0.91	25.37 17.80 1.99 5.57 0.01 3.03 0.86	18.17 2.03 5.79 0.01 3.14	18.58 2.09 5.88 0.01 3.34	18.67 2.09 5.77 0.01	25.58 17.99 2.01 5.58 0.01	25.83 18.04 2.01 5.77 0.01 3.11	26.07 18.22 2.04 5.81 0.01 3.16
DECD Americas 2 United States 4 Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	16.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	17.95 2.03 5.74 0.01 3.20 0.86 1.91	19.10 2.07 5.82 0.01 3.35 0.81 2.12	17.25 2.00 5.73 0.01 3.30 0.91	17.80 1.99 5.57 0.01 3.03 0.86	18.17 2.03 5.79 0.01 3.14	18.58 2.09 5.88 0.01 3.34	18.67 2.09 5.77 0.01	17.99 2.01 5.58 0.01	18.04 2.01 5.77 0.01 3.11	18.22 2.04 5.81 0.01 3.16
Americas 2 United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	16.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	17.95 2.03 5.74 0.01 3.20 0.86 1.91	19.10 2.07 5.82 0.01 3.35 0.81 2.12	17.25 2.00 5.73 0.01 3.30 0.91	17.80 1.99 5.57 0.01 3.03 0.86	18.17 2.03 5.79 0.01 3.14	18.58 2.09 5.88 0.01 3.34	18.67 2.09 5.77 0.01	17.99 2.01 5.58 0.01	18.04 2.01 5.77 0.01 3.11	18.22 2.04 5.81 0.01 3.16
United States Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	16.82 1.95 5.59 0.01 3.38 0.89 2.04 0.45	17.95 2.03 5.74 0.01 3.20 0.86 1.91	19.10 2.07 5.82 0.01 3.35 0.81 2.12	17.25 2.00 5.73 0.01 3.30 0.91	17.80 1.99 5.57 0.01 3.03 0.86	18.17 2.03 5.79 0.01 3.14	18.58 2.09 5.88 0.01 3.34	18.67 2.09 5.77 0.01	17.99 2.01 5.58 0.01	18.04 2.01 5.77 0.01 3.11	18.22 2.04 5.81 0.01 3.16
Mexico Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	1.95 5.59 0.01 3.38 0.89 2.04 0.45	2.03 5.74 0.01 3.20 0.86 1.91	2.07 5.82 0.01 3.35 0.81 2.12	2.00 5.73 0.01 3.30 0.91	1.99 5.57 0.01 3.03 0.86	2.03 5.79 0.01 3.14	2.09 5.88 0.01 3.34	2.09 5.77 0.01	2.01 5.58 0.01	2.01 5.77 0.01 3.11	2.04 5.81 0.01 3.16
Canada Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	5.59 0.01 3.38 0.89 2.04 0.45	5.74 0.01 3.20 0.86 1.91	5.82 0.01 3.35 0.81 2.12	5.73 0.01 3.30 0.91	5.57 0.01 3.03 0.86	5.79 0.01 3.14	5.88 0.01 3.34	5.77 0.01	5.58 0.01	5.77 0.01 3.11	5.81 0.01 3.16
Chile Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Azerbaijan Kazakhstan	0.01 3.38 0.89 2.04 0.45	0.01 3.20 0.86 1.91	0.01 3.35 0.81 2.12	0.01 3.30 0.91	0.01 3.03 0.86	0.01 3.14	0.01 3.34	0.01	0.01	0.01 3.11	0.01 3.16
Europe UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	3.38 0.89 2.04 0.45	3.20 0.86 1.91	3.35 0.81 2.12	3.30 0.91	3.03 0.86	3.14	3.34			3.11	3.16
UK Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	0.89 2.04 0.45	0.86 1.91	0.81 2.12	0.91	0.86			3.36	2.81		
Norway Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	2.04 0.45	1.91	2.12			0.79		0.85	0.82	0.81	
Others Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	0.45					1.91	0.87 2.04	2.08	1.54	1.88	1.96
Asia Oceania Australia Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan		0.43	0.42	0.42	0.43	0.43	0.43	0.42	0.45	0.43	0.43
Others Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	0.51	0.50	0.48	0.49	0.51	0.51	0.51	0.49	0.51	0.50	0.51
Total OECD 2 NON-OECD Former USSR Russia Azerbaijan Kazakhstan	0.44	0.43	0.41	0.42	0.45	0.44	0.44	0.42	0.44	0.43	0.44
NON-OECD Former USSR Russia Azerbaijan Kazakhstan	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Former USSR Russia Azerbaijan Kazakhstan	8.27	29.44	30.83	28.78	28.92	29.65	30.40	30.38	28.90	29.44	29.75
Russia Azerbaijan Kazakhstan											
Azerbaijan Kazakhstan	3.77	13.69	12.50	14.39	13.43	13.55	13.40	12.66	13.60	13.83	13.47
Kazakhstan	10.87	10.87	9.55	11.37	10.70	10.95	10.49	9.68	11.09	11.12	10.95
	0.70	0.67	0.67	0.70	0.67	0.66	0.67	0.68	0.63	0.67	0.65
Others	1.85	1.82	1.96	1.98 0.34	1.76	1.64	1.92	1.99	1.58	1.73	1.56
Asia	0.35 6.91	0.32 6.93	0.31 6.89	7.02	0.30 6.96	0.31 6.88	0.31 6.85	0.32 6.94	0.30 7.00	0.30 6.83	0.31 6.92
China	4.06	4.20	4.26	4.23	4.23	4.18	4.16	4.29	4.27	4.12	4.21
Malaysia	0.57	0.57	0.57	0.57	0.56	0.57	0.57	0.57	0.57	0.57	0.57
India	0.73	0.71	0.70	0.72	0.71	0.71	0.70	0.69	0.72	0.72	0.71
Indonesia	0.68	0.64	0.61	0.67	0.64	0.63	0.62	0.62	0.64	0.63	0.63
Others	0.88	0.81	0.76	0.83	0.81	0.80	0.79	0.77	0.80	0.79	0.81
Europe	0.11	0.11	0.10	0.11	0.11	0.10	0.10	0.10	0.11	0.11	0.10
Americas	5.30	5.59	5.95	5.43	5.47	5.67	5.79	5.86	5.37	5.60	5.70
Brazil Argentina	3.00 0.64	3.09 0.71	3.39 0.73	3.09 0.69	3.00 0.70	3.08 0.71	3.20 0.72	3.27 0.72	2.92 0.70	3.02 0.71	3.10 0.71
Colombia	0.74	0.76	0.75	0.05	0.76	0.76	0.72	0.76	0.76	0.76	0.76
Ecuador	0.48	0.47	0.45	0.47	0.45	0.47	0.47	0.46	0.40	0.47	0.47
Others	0.43	0.57	0.63	0.43	0.56	0.65	0.64	0.64	0.59	0.65	0.66
Middle East	3.08	3.21	3.26	3.15	3.21	3.24	3.22	3.25	3.24	3.25	3.24
Oman	0.98	1.07	1.10	1.04	1.07	1.09	1.08	1.09	1.08	1.09	1.08
Qatar	1.82	1.84	1.87	1.82	1.85	1.85	1.85	1.87	1.85	1.85	1.85
Others	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.29	0.31	0.31	0.31
Africa	1.31 0.57	1.30	1.30 0.59	1.28	1.28 0.59	1.31	1.32	1.31	1.33 0.60	1.31 0.59	1.32 0.60
Egypt Others	0.57 0.74	0.58 0.71	0.59	0.57 0.71	0.59	0.59 0.72	0.59 0.72	0.59 0.72	0.60	0.59	0.60
Total Non-OECD 3 Processing gains ⁵	0.49	30.82	29.99	31.39	30.46	30.76	30.67	30.11	30.64	30.92	30.75
Processing gains Global biofuels	2.25	2.31 2.93	2.36 3.04	2.29 2.44	2.29 3.01	2.33 3.33	2.32 2.95	2.33 2.55	2.32 3.26	2.35 3.37	2.36 3.36
	115	65.50	66.22	64.89	64.66	66.07	66.34	65.37	65.12	66.09	66.21
TOTAL SUPPLY 9	2.75 3.76	00.00		98.70	98.72	00.01	00.04			100.51	101.30

1 Neutral Zone production is already included in Saudi Arabia and Kuwait production with their respective shares.

2 Includes condensates reported by OPEC countries, oil from non-conventional sources, e.g. GTL in Nigeria and non-oil inputs to Saudi Arabian MTBE.

3 OPEC data based on today's membership throughout the time series.

4 Comprises crude oil, condensates, NGLs and oil from non-conventional sources

5 Net volumetric gains and losses in refining and marine transportation losses.

				Table 3	3a						
		OIL	. SUPPL	Y IN OEC		INTRIE	ES ¹				
				thousand of barre							
	2021	2022	2023	1Q22	2Q22	3Q22	4Q22	1Q23	Jun 22	Jul 22	Aug 22
United States											
Alaska	437 380	436	426	446	436	418	443	444 337	419	428	408
California Texas	380 4766	345 5031	332 5301	350 4886	347 4980	344 5078	340 5178	337 5173	346 4959	345 4982	343 5115
Federal Gulf of Mexico ²	1707	1718	1873	1673	1720	1790	1688	1896	1791	1833	1850
Other US Lower 48	3963	4295	4655	4111	4216	4327	4520	4614	4302	4275	4255
NGLs ³	5425	5941	6294	5614	5915	6031	6198	6003	5982	5978	6056
Other Hydrocarbons	142	188	218	167	187	187	210	200	190	200	190
Total	16820	17954	19099	17248	17800	18174	18576	18667	17988	18041	18217
Canada											
Alberta Light/Medium/Heavy	436	486	498	469	497	491	487	503	491	493	490
Alberta Bitumen	1921	1985	2067	1926	1883	2075	2054	1976	1868	2036	2034
Saskatchewan	443	454	447	445	461	457	452	453	458	458	457
Other Crude NGLs	456 975	428 1023	450 994	441 1051	435 1020	413 1014	422 1009	434 1003	417 1028	413 1016	412 1012
Other Upgraders	180	184	184	188	171	180	196	188	177	182	188
Synthetic Crudes	1181	1183	1183	1210	1101	1160	1260	1210	1139	1173	1214
Total	5592	5742	5822	5729	5568	5789	5880	5766	5576	5770	5808
Mexico											
Crude	1780	1866	1924	1825	1834	1872	1933	1938	1845	1850	1879
NGLs	170	157	143	171	154	152	150	147	158	152	152
Total	1954	2029	2073	2002	1994	2030	2088	2091	2009	2008	2037
UK		_0_0	2010			2000	2000	2001	2000	2000	
Brent Fields	25	24	19	29	26	18	21	23	22	27	15
Forties Fields	211	216	193	250	209	183	224	218	179	200	156
Ninian Fields	24	17	13	21	18	15	14	14	16	14	16
Flotta Fields	50	41	36	48	40	39	39	38	42	39	39
Other Fields	511	493	487	487	499	474	512	492	497	467	481
NGLs	67	67	62	74	68	64	63	63	63	63	65
Total	888	858	809	909	859	793	873	847	819	809	772
Norway ⁴											
Ekofisk-Ula Area	141	116	117	130	84	123	126	124	35	125	116
Oseberg-Troll Area	212	214	234	211	211	205	230	232	215	221	227
Statfjord-Gullfaks Area Haltenbanken Area	262 284	241 274	219 287	249 283	245 250	237 283	231 280	226 283	233 256	241 283	236 282
Sleipner-Frigg Area	816	797	980	834	676	807	871	930	557	720	849
Other Fields	74	76	90	57	94	54	97	91	57	72	46
NGLs	249	197	191	205	180	204	201	197	188	213	204
Total	2038	1915	2118	1971	1739	1912	2036	2084	1540	1876	1960
Other OECD Europe											
Denmark	66	65	63	67	66	64	63	61	65	65	64
Italy	97	93	96	85	92	98	98	97	101	98	98
Türkiye	66	67	67	64	68	68	68	67	68	68	68
Other	99	86	83	93	73	89	88	86	68	90	90
NGLs Non-Conventional Oils	7 118	6 111	6 108	8 105	6 127	6 106	6 107	6 108	6 144	6 102	6 107
Total	453	428	423	421	431	432	429	425	453	428	433
Australia	-	_	_	-	-	_	-	_	-	_	-
Gippsland Basin Cooper-Eromanga Basin	5 23	5 19	5 17	6 19	6 19	5 18	5 18	5 18	5 19	5 19	5 18
Cooper-Eromanga Basin Carnarvon Basin	23 114	105	96	19	106	18	102	99	105	105	18
Other Crude	193	199	188	177	206	205	208	191	211	197	211
NGLs	109	106	104	107	109	104	106	105	98	103	103
Total	444	434	411	417	445	437	438	418	439	429	441
Other OECD Asia Oceania											
New Zealand	18	16	15	17	15	17	16	16	14	17	17
Japan	4	3	3	4	3	3	3	3	3	3	3
NGLs	11	10	9	12	11	9	9	9	10	9	9
Non-Conventional Oils	37	40	40	41	39	40	40	40	44	39	39
Total	71	70	67	73	69	69	68	68	71	68	68
OECD											
Crude Oil	19588	20212	21284	19815	19814	20375	20832	21085	19663	20189	20387
NGLs	7019	7517	7811	7250	7471	7592	7749	7541	7543	7550	7615
		1711	1738	1716	1630	1679	1818	1751	1699	1701	1744
Non-Conventional Oils ⁵	1662	1711	1750	1710	1030	1075	1010	1751	1033	1701	

Subcategories refer to crude oil only unless otherwise noted.
 Only production from Federal waters is included.
 To the extent possible, condensates from natural gas processing plants are included with NGLs, while field condensates are aggregated with crude oil.
 North Sea production is grouped into crude streams that include all fields being processed through the named field complex, i.e. the name corresponds to the crude stream not just the field of that name.
 Does not include biofuels.

WORLD	OIL PR	ODUCT	ION (Inc	Table 3 Iuding OP	EC+ ba	ised on	current	agreen	nent')		
	2021	2022	2023	1Q22	2Q22	3Q22	4Q22	1Q23	Jun 22	Jul 22	Aug 22
OPEC+											
Crude Oil	0.04	4.04	4.00	0.00		4.00		4.00	4 00	4.00	4.00
Algeria	0.91	1.01 1.15	1.00 1.07	0.99	1.01	1.02	1.01	1.00	1.02	1.02	1.02
Angola Azerbaijan	1.12 0.59	0.56	0.54	1.16 0.58	1.17 0.56	1.16 0.56	1.10 0.56	1.10 0.55	1.18 0.52	1.18 0.56	1.18 0.55
Bahrain	0.33	0.30	0.19	0.18	0.19	0.20	0.19	0.33	0.32	0.20	0.20
Brunei	0.08	0.08	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.08
Congo	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.27	0.28	0.26	0.27
Equatorial Guinea	0.10	0.09	0.10	0.09	0.09	0.09	0.10	0.10	0.09	0.10	0.08
Gabon	0.18	0.19	0.19	0.19	0.18	0.19	0.19	0.19	0.19	0.19	0.20
Iran	2.42	2.52	2.55	2.55	2.47	2.52	2.55	2.55	2.50	2.49	2.52
Iraq Kazakhstan	4.03 1.52	4.48 1.48	4.65 1.62	4.29 1.63	4.45 1.43	4.54 1.31	4.63 1.57	4.65 1.64	4.47 1.25	4.53 1.40	4.54 1.24
Kuwait	2.42	2.72	2.81	2.61	2.67	2.79	2.80	2.81	2.68	2.77	2.80
Libya	1.15	1.00	1.18	1.08	0.77	0.96	1.18	1.18	0.63	0.65	1.08
Malaysia	0.42	0.40	0.40	0.41	0.39	0.40	0.40	0.40	0.41	0.40	0.40
Mexico	1.66	1.65	1.67	1.64	1.62	1.64	1.70	1.69	1.62	1.62	1.65
Nigeria	1.31	1.16	1.17	1.30	1.15	1.03	1.14	1.18	1.16	1.08	0.98
Oman	0.75	0.84	0.87	0.82	0.84	0.86	0.85	0.86	0.85	0.87	0.85
Russia	9.62	9.61	8.33	10.04	9.40	9.72	9.27	8.46	9.80	9.82	9.77
Saudi Arabia	9.15	10.66	11.00	10.20	10.49	10.93	11.00	11.00	10.54	10.81	10.96
South Sudan Sudan	0.15 0.06	0.14 0.06	0.15 0.05	0.14 0.06	0.14 0.06	0.14 0.06	0.15 0.06	0.15 0.06	0.14 0.06	0.13 0.06	0.14 0.06
UAE	2.76	3.28	3.40	3.09	3.24	3.38	3.40	3.40	3.38	3.33	3.40
Venezuela	0.61	0.72	0.76	0.72	0.74	0.68	0.75	0.76	0.73	0.63	0.69
Total Crude Oil	41.47	44.25	44.06	44.11	43.41	44.52	44.96	44.26	43.78	44.17	44.67
of which Neutral Zone	0.25			0.27	0.28				0.28	0.28	0.32
Total NGLs TOTAL OPEC+	7.50 48.97	7.87 52.1	7.97 52.0	7.87 52.0	7.89 51.3	7.84 52.4	7.90 52.9	7.95 52.2	7.90 51.7	7.94 52.1	7.77 52.4
NON-OPEC+		•2	02.0	02.0	0.1.0	•=	02.0		•		
OECD											
Americas ²	22.42	23.71	24.93	22.99	23.38	23.97	24.47	24.44	23.57	23.82	24.04
United States	16.82	17.95	19.10	17.25	17.80	18.17	18.58	18.67	17.99	18.04	18.22
Canada Chile	5.59 0.01	5.74 0.01	5.82 0.01	5.73 0.01	5.57 0.01	5.79 0.01	5.88 0.01	5.77 0.01	5.58 0.01	5.77 0.01	5.81 0.01
Europe	3.38	3.20	3.35	3.30	3.03	3.14	3.34	3.36	2.81	3.11	3.16
UK	0.89	0.86	0.81	0.91	0.86	0.79	0.87	0.85	0.82	0.81	0.77
Norway	2.04	1.91	2.12	1.97	1.74	1.91	2.04	2.08	1.54	1.88	1.96
Others	0.45	0.43	0.42	0.42	0.43	0.43	0.43	0.42	0.45	0.43	0.43
Asia Oceania	0.51	0.50	0.48	0.49	0.51	0.51	0.51	0.49	0.51	0.50	0.51
Australia	0.44	0.43	0.41	0.42	0.45	0.44	0.44	0.42	0.44	0.43	0.44
Others Total OECD (non-OPEC+)	0.07 26.32	0.07 27.41	0.07 28.76	0.07 26.78	0.07 26.92	0.07 27.62	0.07 28.31	0.07 28.28	0.07 26.90	0.07 27.43	0.07 27.71
Non-OECD											
FSU	0.35	0.32	0.31	0.34	0.30	0.31	0.31	0.32	0.30	0.30	0.31
Asia	6.24	6.26	6.23	6.34	6.30	6.22	6.18	6.28	6.33	6.17	6.26
China	4.06	4.20	4.26	4.23	4.23	4.18	4.16	4.29	4.27	4.12	4.21
India	0.73	0.71	0.70	0.72	0.71	0.71	0.70	0.69	0.72	0.72	0.71
Indonesia	0.68	0.64	0.61	0.67	0.64	0.63	0.62	0.62	0.64	0.63	0.63
Others Europe	0.77 0.11	0.71 0.11	0.66 0.10	0.73 0.11	0.72 0.11	0.71 0.10	0.70 0.10	0.68 0.10	0.71 0.11	0.70 0.11	0.71 0.10
Americas	5.30	5.59	5.95	5.43	5.47	5.67	5.79	5.86	5.37	5.60	5.70
Brazil	3.00	3.09	3.39	3.09	3.00	3.08	3.20	3.27	2.92	3.02	3.10
Argentina	0.64	0.71	0.73	0.69	0.70	0.71	0.72	0.72	0.70	0.71	0.71
Colombia	0.74	0.76	0.75	0.75	0.76	0.76	0.77	0.76	0.76	0.76	0.76
Ecuador	0.48	0.47	0.45	0.47	0.45	0.47	0.47	0.46	0.40	0.47	0.47
Others	0.43	0.57	0.63	0.43	0.56	0.65	0.64	0.64	0.59	0.65	0.66
Middle East	1.92	1.94	1.96	1.92	1.95	1.94	1.94	1.96	1.94	1.94	1.94
Qatar	1.82	1.84	1.87	1.82	1.85	1.85	1.85	1.87	1.85	1.85	1.85
Others	0.10	0.10	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Africa	1.10	1.10	1.10	1.08	1.08	1.11	1.11	1.10	1.13	1.12	1.11
Egypt	0.57	0.58	0.59	0.57	0.59	0.59	0.59	0.59	0.60	0.59	0.60
Others Total non-OECD (non-OPEC+)	0.53 15.02	0.51 15.31	0.51 15.65	0.51 15.23	0.50 15.21	0.52 15.37	0.52 15.44	0.51 15.62	0.53 15.19	0.53 15.24	0.52 15.43
Processing gains	2.25	2.31	2.36	2.29	2.29	2.33	2.32	2.33	2.32	2.35	2.36
Global biofuels	2.25	2.93	3.04	2.44	3.01	3.33	2.95	2.55	3.26	3.37	3.36
TOTAL NON-OPEC+	46.34	47.96	49.80	46.73	47.42	48.65	49.02	48.78	47.66	48.40	48.85
TOTAL SUPPLY	95.31	100.09	101.83	98.70	98.72	101.01	101.87	100.99	99.34	100.51	101.30

1 From Sep 2022, OPEC+ supply reflects latest OPEC+ deal and individual country's sustainable capacity. Libya, Iran, Venezuela held at most recent level through 2023.

2 Excludes Mexico

						ible 4						
		(DECD S	TOCKS	AND QUA	ARTERLY	STOCK	CHANG	ES			
			MONTHL	Y STOCKS	2		YEARS' S Million Barr				HANGES	
	Mar2022	Apr2022	May2022		Jul2022 ³	Jul2019	Jul2020	Jul2021	3Q2021	4Q2021	1Q2022	2Q2022
OECD INDUSTRY	-CONTROL	LED STO	CKS1									
OECD Americas												
Crude	569.3	577.6	569.7	568.0	573.1	584.9	668.4	606.7	-0.33	0.07	-0.21	-0.01
Motor Gasoline	266.6	256.9	245.4	246.5	250.5	262.7	278.7	258.4	-0.13	0.07	0.08	-0.22
Middle Distillate	179.2	173.8	179.0	179.9	180.4	212.8	250.6	216.8	-0.12	-0.09	-0.18	0.01
Residual Fuel Oil	34.5	36.4	36.8	35.7	35.9	36.3	42.7	36.1	-0.05	-0.02	0.03	0.01
Total Products ⁴	683.1	682.2	696.4	704.2	730.1	810.5	867.0	781.5	-0.03	-0.45	-0.47	0.23
Total⁵	1409.8	1415.0	1429.8	1432.6	1461.5	1565.3	1715.9	1556.7	-0.39	-0.51	-0.62	0.25
OECD Europe												
Crude	323.6	327.9	336.2	340.0	339.6	357.4	383.0	336.5	-0.38	-0.03	0.23	0.18
Motor Gasoline	91.2	94.3	90.9	86.5	85.2	87.7	94.1	83.1	-0.07	0.06	0.06	-0.05
Middle Distillate	239.6	250.4	243.6	239.3	244.5	278.1	334.0	296.4	-0.37	-0.31	-0.04	0.00
Residual Fuel Oil	63.0	66.2	65.6	65.3	64.2	61.3	74.2	62.4	-0.01	-0.04	0.04	0.02
Total Products ⁴	490.4	515.2	506.2	497.9	499.0	541.0	620.7	541.6	-0.45	-0.31	0.06	0.08
Total⁵	890.3	918.0	916.8	911.4	913.8	985.0	1091.9	953.2	-0.89	-0.37	0.37	0.23
OECD Asia Ocea	nia											
Crude	105.5	114.8	107.1	93.9	104.0	158.8	170.3	114.5	-0.17	-0.11	0.07	-0.13
Motor Gasoline	25.6	25.7	25.5	25.5	23.3	27.8	25.7	26.1	-0.03	-0.03	0.02	0.00
Middle Distillate	56.2	58.8	56.3	61.3	65.6	72.4	71.2	66.2	0.07	-0.09	-0.09	0.06
Residual Fuel Oil	15.4	16.9	17.3	16.1	15.6	18.9	18.3	17.7	0.02	-0.02	-0.02	0.01
Total Products ⁴	158.1	161.2	159.3	165.3	167.6	181.1	181.1	169.1	0.15	-0.23	-0.05	0.08
Total⁵	315.7	334.4	327.3	317.4	329.2	403.7	413.7	345.1	-0.02	-0.34	-0.09	0.02
Total OECD												
Crude	998.4	1020.4	1013.0	1001.9	1016.7	1101.2	1221.7	1057.6	-0.88	-0.07	0.08	0.04
Motor Gasoline	383.4	376.9	361.7	358.5	359.0	378.2	398.6	367.6	-0.22	0.10	0.16	-0.27
Middle Distillate	475.0	483.1	478.8	480.5	490.4	563.3	655.8	579.4	-0.41	-0.49	-0.31	0.06
Residual Fuel Oil	112.9	119.5	119.7	117.1	115.7	116.5	135.2	116.2	-0.04	-0.08	0.05	0.05
Total Products ⁴	1331.6	1358.5	1361.9	1367.4	1396.7	1532.6	1668.8	1492.3	-0.32	-0.99	-0.47	0.39
Total⁵	2615.8	2667.5	2673.9	2661.4	2704.5	2954.0	3221.5	2854.9	-1.30	-1.23	-0.34	0.50
OECD GOVERNM	IENT-CONT	ROLLED	STOCKS									
OECD Americas												
Crude	566.1	547.9	523.1	493.3	469.0	644.8	656.1	621.3	-0.04	-0.26	-0.31	-0.80
Products	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.00	0.00	0.00	0.00
OECD Europe												
Crude	198.4	195.8	196.2	195.1	195.0	205.8	207.8	204.4	0.00	-0.05	-0.02	-0.04
Products	268.4	262.0	259.5	255.7	254.8	274.1	281.6	277.7	-0.01	-0.01	-0.09	-0.14
OECD Asia Ocea	nia											
Crude	367.8	364.5	361.0	358.1	358.5	378.6	377.2	373.9	-0.05	0.01	-0.03	-0.11
Products	37.9	37.9	37.9	37.3	37.3	38.9	39.4	38.8	0.00	0.00	-0.01	-0.01
Total OECD												
Crude	1132.3	1108.1	1080.3	1046.6	1022.4	1229.2	1241.2	1199.6	-0.10	-0.31	-0.35	-0.94
Products	308.3	301.9	299.4	295.0	294.1	315.0	322.9	318.6	-0.01	-0.01	-0.11	-0.14
Total⁵	1442.2	1411.6	1381.3	1343.2	1317.7	1546.0	1566.1	1519.8	-0.12	-0.31	-0.46	-1.08
		-										

Stocks are primary national territory stocks on land (excluding utility stocks and including pipeline and entrepot stocks where known) and include stocks held by industry to meet IEA, EU and national emergency reserve commitments and are subject to government control in emergencies.
 Closing stock levels.
 Estimated.
 Total products includes gasoline, middle distillates, fuel oil and other products.
 Total includes NGLs, refinery feedstocks, additives/oxygenates and other hydrocarbons.
 Includes government-owned stocks and stock holding organisation stocks held for emergency purposes.

Table Crude 34.3 30.4 -11.4 39.9 32.7 18.0 34.1 -11.7 42.9 36.4 -15.2 42.7 38.2 -10.4 Middre Distillate 28.1 23.8 15.3 28.6 23.1 +9.2 28.8 22.6 25.0 29.4 42.2 -7.8 4.0 Middre Distillate 28.1 23.8 17.9 7.8 1.6 3.13 7.5 7.8 4.0 Other Products 14.0 11.3 +19.3 11.0 -10.6 11.1 11.4 2.7 10.9 11.8 8.3 10.8 10.7 7.5 7.8 4.0 Other Products 14.0 11.3 +10.7 -2.6 15.3 14.6 4.6 15.6 13.8 10.7 -7.2 16.3 14.6 4.6 15.6 13.8 11.5 15.0 14.9 0.7 7.7 18.8 0.04.4 12.1 11.5 11.3 2.0 7.7 4.8								Table 4a								
February March April May Une Chies 2021 202 % 2021 2022 % 2021 2022 % 2021 2022 % 2021 2022 % 2021 2022 % 2021 2022 % 2021 2022 % 2021				NDU	STRY STO	OCKS ¹			ELEC	TED	COUNTRI	ES				
Lance Long Vi. Long Long <thlong< th=""> <thlong< th=""> <thlong< th=""></thlong<></thlong<></thlong<>							(million barrels)								
United States ² Code 403.3 405.1 17.2 502.5 414.4 17.5 488.2 419.1 14.3 47.70 414.3 13.11 448.1 417.5 -68. Moter Gaussiane 188.0 162.2 123 123 123.3 123.3 123.3 123.3 123.3 123.3 123.3 123.3 123.3 123.3 123.3 123.3 123.0 123.3 123.3 123.0 123.5 143.5 133.5 123.5			Februar	у		March			April			Мау			June	
Chode 493. 406.1 17.2 502.5 61.4 47.5 64.80 231.3 241.3 141.4 115.4 113		2021	2022	%	2021	2022	%	2021	2022	%	2021	2022	%	2021	2022	%
Metor Geschine 213 204 38 237.8 238.6 2.0.1 3.6 24.0.2 2.0.7 6.1 237.3 2.10 6.10 Residual Full OI 31.4 27.7 12.4 300 7.7 3.10 7.24 7.1 3.00 7.2 4.8 31.5 7.2 7.3 7.0 <td></td> <td>103.0</td> <td>100 1</td> <td>-17.2</td> <td>502 5</td> <td>A1A A</td> <td>-17 5</td> <td>180.2</td> <td>/10 1</td> <td>-143</td> <td>477.0</td> <td>1113</td> <td>-13.1</td> <td>1/18 1</td> <td>1175</td> <td>-6.8</td>		103.0	100 1	-17.2	502 5	A1A A	-17 5	180.2	/10 1	-143	477.0	1113	-13.1	1/18 1	1175	-6.8
Mades Desiliation 166.0 162.2 162.2 17.2 151.5 16.1 17.2 17.2 17.2 17.3 14.5.3 12.0 12.0 12.3 12																
Other Producting 205.6 178.0 128.1 227.7 178.9 134.1 22.5 228.7 212.5 7.5 228.4 212.5 7.5 228.4 212.5 7.5 228.4 212.5 7.5 228.4 212.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.7 7.8																
Table Production 668.3 618.1 -0.0 663.5 696.7 90.8 70.8 70.8 70.8 70.8 70.8 70.9 70.7<																
Other 144.8 138.2 -6 144.8 144.5 -2.3 140.9 130.3 1172.5 11.2 130.3 1172.5 11.2 130.3 1172.5 11.2 130.3 1172.5 11.2 130.3 1172.5 11.2 130.3 1172.5 11.2 130.3 1172.5 11.2 130.3 1172.5 11.2 130.3 100.7 7.5 12.6 12.5 11.2 130.3 100.3 <td></td>																
Japan Code TO TO Sol TO Sol TO Sol TO Sol TO Sol TO Sol Sol TO Sol																
Japan Code TO TO Sol TO Sol TO Sol TO Sol TO Sol TO Sol Sol TO Sol	Total	1303.0	1165.4	-10.6	1310.9	1153.6	-12.0	1298.8	1153.5	-11.2	1303.9	1172.5	-10.1	1281.3	1179.7	-7.9
Chode 77.0 70.7 82.2 64.5 75.0 17.8 68.8 80.3 15.0 74.4 74.9 4.5 76.0 67.0 11.8 Mode Gasoline 30.1 2.67 11.3 22.4 23.3 15.0 22.2 24.7 15.4 30.9 14.3 15.0 67.4 31.5 28.6 17.4 31.5 28.6 17.6 18.8 13.1 31.9 33.1 38.8 33.1 38.8 33.1 34.8 51.0 43.0 13.4 43.8 43.6 43.6 44.8 43.7 14.7 47.3 44.8 51.0 44.9 45.1 47.8 48.1 47.4 43.4 48.6 50.6 44.8 49.0 45.8 40.1 10.1 11.8 48.8 49.0 42.8 10.6 13.0 79.8 50.8 44.8 16.8 13.7 11.6 55.8 44.9 10.6 13.0 13.0 13.0 13.0 13.0 13.0																
Models Desiliate 90.1 26.7 11.3 27.4 23.3 15.0 28.2 24.7 15.4 28.1 15.7 16.8 15.8		77.0	70.7	-8.2	64.5	76.0	17.8	69.8	80.3	15.0	78.4	74.9	-4.5	76.0	67.0	-11.8
Residual Fuel Qi 7.1 6.5 6.5 7.7 2.6 2.1 9.3 3.6 6.8 1.0 9.4 8.3 Total Products 8.3 7.8 7.8 2.2 2.1 3.6 3.2 3.8 <td></td>																
Other Products 32.9 32.2 21.2 21.3 31.9 33.1 3.8 33.1 3.8 33.1 3.8 33.1 3.8 33.1 3.8 33.1 3.8 33.1 3.8 33.1 3.8 33.1 3.8 33.1 3.8 33.1 3.8 57.10 48.7 76.0 7.9 70.0 47.3 4.8 71.0 47.8 6.8 Cital 209.2 190.7 8.8 188.7 188.8 6.5 200.7 70.1 60.0 217.2 20.3 6.4 212.0 18.4 6.1 212.0 19.1 Carbin 90.0 7.5 7.5 7.9 5.3 7.8 0.0 10.3 0.0 2.9 9.9 9.0 0.0																
Total Products 93.1 76.3 9.2 77.3 9.5 1.6 8.7 7.8 <td></td>																
Total 209.2 190.7 6.8 199.7 188.8 0.5 200.7 201.9 0.6 217.2 203.3 6.4 212.0 192.8 9.1 Gormany Crude 49.5 47.3 44.4 52.7 48.1 6.7 49.0 48.8 -0.4 46.7 50.7 8.6 49.5 1.6 1.3 11.9 5.3 8.4 49.5 1.6 1.1 11.6 1.3 11.9 5.3 8.4 49.5 1.6 1.0 1.6 0.2 2.4 2.5.1 4.1 2.7.1 1.0 10.6 6.0 10.3 10.0 2.9 9.9 9.0 0.0																
Germany Corb	Other ³	49.1	43.7	-11.0	47.3	42.0	-11.2	49.7	47.3	-4.8	51.0	49.9	-2.2	51.3	47.8	-6.8
Crude 495 47.3 4.4 5.27 44.1 6.7 49.0 48.8 0.4 46.7 50.7 8.6 48.7 49.5 1.6 Midde Dasiliate 25.7 21.6 1.6 2.27 24.1 6.2 24.1 27.1 12.4 26.7 26.0 -2.6 24.1 25.7 7.5 7.5 7.7 7.8 7.4 7.8 7.7 7.8 7.7 7.8 7.7 7.8 7.7 7.8 7.7 7.8 7.7 7.8 7.7 7.8 7.7	Total	209.2	190.7	-8.8	189.7	188.8	-0.5	200.7	201.9	0.6	217.2	203.3	-6.4	212.0	192.8	-9.1
Motor Gaseline 11.6 11.6 11.6 11.3 11.9 5.3 9.4 10.1 7.4 Residual Fuel Cili 7.6 7.6 7.5 7.7 5.3 7.8 <t< td=""><td>Germany</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Germany															
Made Desiliante 25.7 21.6 -16.0 22.7 24.1 62.7 78.0 0.7.8 0.0 7.9 8.0 7.8 0.0 7.8 0.0 7.8 0.0 7.8 0.0 7.8 0.0 7.8 0.0 7.8 0.0 <																
Residual Fuel OII 7.6 8.6 1.2 7.9 8.0 1.3 9 9.5 7.6 Other Products 5.4 100 6.4 9.9 9.9 9.0 0.0 <td></td>																
Oher Products 9.4 10.0 6.6 9.2 9.0 0.0 10.0 2.2 9.9 9.9 0.0 Total Products 0.0 <td></td>																
Other 0.0 </td <td></td>																
Total 103.8 98.1 -5.5 101.3 100.7 -0.6 101.1 105.9 4.7 102.9 106.6 3.6 100.0 103.1 3.1 taly Crude 34.3 30.4 +11.4 39.9 32.7 18.0 38.6 34.1 -11.7 42.9 36.4 -15.2 42.7 38.2 -10.5 Motor Gasoline 10.6 11.3 6.6 9.8 11.3 15.3 12.6 10.5 16.7 12.1 11.6 +1.1 10.4 10.2 -19.8 Motor Gasoline 10.6 7.7 8.8 12.3 11.0 10.6 7.1 11.4 2.7 10.9 11.8 8.3 10.8 11.5 6.5 7.8 4.0 15.6 13.8 11.8 16.3 11.7 7.7 7.7 7.7 18.8 10.4 11.1 18.8 10.8 13.8 11.7 12.3 13.8 11.5 13.8 11.5 13.8 11.7 12.4<		54.3	50.8	-6.4	48.6	52.6		52.1	57.1	9.6	56.2	55.9	-0.5	51.3	53.6	
Table Crude 34.3 30.4 -11.4 39.9 32.7 18.0 34.1 -11.7 42.9 36.4 -15.2 42.7 38.2 -10.4 Middre Distillate 28.1 23.8 15.3 28.6 23.1 +9.2 28.8 22.6 25.0 29.4 42.2 -7.8 4.0 Middre Distillate 28.1 23.8 17.9 7.8 1.6 3.13 7.5 7.8 4.0 Other Products 14.0 11.3 +19.3 11.0 -10.6 11.1 11.4 2.7 10.9 11.8 8.3 10.8 10.7 7.5 7.8 4.0 Other Products 14.0 11.3 +10.7 -2.6 15.3 14.6 4.6 15.6 13.8 10.7 -7.2 16.3 14.6 4.6 15.6 13.8 11.5 15.0 14.9 0.7 7.7 18.8 0.04.4 12.1 11.5 11.3 2.0 7.7 4.8	Other ³	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crude 34.3 30.4 -11.4 39.9 32.7 -18.0 38.6 34.1 -11.7 42.9 36.4 -15.2 42.7 38.2 -10.5 Moder Cascine 28.1 -15.3 28.6 22.1 -19.2 28.8 26.6 -21.5 30.0 22.5 -25.0 28.4 21.2 -27.9 Residual Fuel Oli 7.7 8.1 5.2 8.1 7.9 -2.5 7.4 8.7 7.6 7.0 3.8 3.13 7.5 7.8 4.0 Other Products 60.4 54.5 -9.8 58.8 53.3 -9.4 59.9 53.2 -1.2 60.3 54.2 -1.0 8.1 4.9 -1.2 TOT TOT 7.1 <td>Total</td> <td>103.8</td> <td>98.1</td> <td>-5.5</td> <td>101.3</td> <td>100.7</td> <td>-0.6</td> <td>101.1</td> <td>105.9</td> <td>4.7</td> <td>102.9</td> <td>106.6</td> <td>3.6</td> <td>100.0</td> <td>103.1</td> <td>3.1</td>	Total	103.8	98.1	-5.5	101.3	100.7	-0.6	101.1	105.9	4.7	102.9	106.6	3.6	100.0	103.1	3.1
Motor Gasoline 10.6 11.3 6.6 9.8 11.3 15.3 12.6 10.5 -6.7 12.1 11.6 -4.1 10.4 10.2 -1.9 Motde Distillation 7.7 8.1 5.2 8.1 1.9 22.6 22.6 20.0 22.2 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 22.5 20.0 21.1 20.5 11.4 27.7 15.1 11.4 27.7 41.6 41.6 10.4 41.2 11.5 61.0 11.4 9.0 11.3 11.3 10.9 40.5 11.8 10.4 41.7 11.6 41.1 43.0 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11.4 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11.3																
Midde Distillate 28.1 23.8 15.3 28.6 23.1 19.2 28.8 28.2 2.6 21.5 30.0 22.5 25.0 29.4 21.2 27.9 Residual Fuel Oli 7.7 8.1 5.2 11.0 10.6 11.1 11.4 2.7 10.9 11.8 8.3 10.7 7.5 7.8 40.0 Other Products 60.4 64.5 9.8 53.3 9.4 59.9 55.2 11.2 60.3 54.2 10.8 10.8 10.5 14.9 0.7 15.0 14.7 2.6 15.3 14.6 15.6 13.8 10.9 10.5 11.8 10.9 15.0 14.9 0.7 15.0 14.9 0.7 10.0 13.0 10.7 11.1 13.0 13.0 13.0																
Residual Fuel Oil 7.7 8.1 5.2 8.1 7.9 2.5 7.4 8.7 17.6 7.3 8.3 13.7 7.5 7.8 40.0 Other Products 14.0 11.3 11.3 12.3 11.0 10.6 111.1 11.4 2.7 10.9 11.8 8.3 10.5 11.5 6.5 Other Products 14.5 13.1 9.7 15.1 14.7 2.6 15.3 14.6 4.6 15.6 13.8 10.4 12.0 14.5 14.5 15.0 14.8 10.9 10.9 11.8 10.4 12.1 15.5 14.8 10.9 10.9 10.8 10.4 12.1 15.5 12.8 10.1 13.8 10.4 12.3 11.7 13.8 10.3 11.3 13.8 13.4 13.3 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5																
Total Products 60.4 54.5 -9.8 53.3 9.4 59.3 53.2 -1.1 60.3 54.2 10.1 58.1 50.7 12.7 Other ² 14.5 13.8 10.7 -1.5 13.8 10.9 15.5 13.8 10.9 10.5 118.8 10.4 +1.2 115.8 10.3 11.5 13.8 10.7 11.5 13.8 10.9 10.5 118.8 10.4 +1.2 115.8 10.3 13.8 10.7 11.8 10.9 10.5 118.8 10.4 +1.2 11.5 12.8 12.7 15.8 10.2 20.3 12.4 11.9 +0.0 13.0 13.5 3.8 Motor Gasoline 5.4 4.5 16.7 3.9 4.2 7.7 4.8 12.9 1.1 4.9 1.4 4.9 1.4 4.9 1.4 4.0 1.1 3.8 3.6 2.9 3.6 3.8 3.6 2.9 1.1 2.1 1.7 2.1 1.7 2.1 1.7 2.1 1.7 2.1 1.7 2.1																
Other ³ 14.5 13.1 9.7 15.1 14.7 2.6 15.3 14.6 4.6 15.6 13.8 11.5 15.0 14.9 0.7 Total 109.2 98.0 10.3 113.8 100.7 113.8 101.9 10.5 118.8 104.4 12.1 115.8 103.8 10.4 Frace Crude 12.3 12.4 0.8 12.8 12.7 12.8 10.2 20.3 12.4 11.9 4.0 13.0 13.5 3.8 Midde Distillate 25.2 16.5 34.5 22.3 18.6 16.6 21.9 13.3 19.7 14.7 22.9 17.2 21.9 Residual Fuel Oli 1.8 1.3 27.8 27.1 14.5 31.9 29.1 8.8 33.6 19.3 15.2 1.1 7.7 2.4 2.5 13.4 2.7 1.5 1.1 7.8 33.6 2.2 1.3 3.4 3.6 1.5	Other Products	14.0	11.3	-19.3	12.3	11.0	-10.6	11.1	11.4	2.7	10.9	11.8	8.3	10.8	11.5	6.5
Total 109.2 98.0 -10.3 113.8 100.7 +1.5 113.8 101.9 +10.5 118.8 104.4 +12.1 115.8 103.8 +10.4 France Crude 12.3 12.4 0.8 12.8 12.1 -5.5 12.8 10.2 + 20.3 12.4 11.9 -4.0 13.0 13.5 3.8 Middle Distillate 25.2 16.5 -34.5 22.3 18.6 +16.6 21.9 19.3 +11.9 23.1 19.7 +14.7 22.9 17.2 - 24.9 Middle Distillate 25.2 15.5 -34.5 22.3 18.6 +16.6 21.9 19.3 +11.9 23.1 19.7 +14.7 22.9 17.2 - 24.9 Other Products 3.5 3.5 0.0 3.5 3.6 2.9 3.4 3.8 11.8 3.7 3.5 - 5.4 3.2 3.6 12.5 Other 7.9 7.1 +0.1 7.9 7.1 +0.1 7.9 7.6 -3.8 49.3 -8.4 52.8 48.5 -8.1 United Kingdom 24.2 26.2 8.3																
France Crude 12.3 12.4 0.8 12.8 12.1 -5.5 12.8 10.2 -20.3 12.4 11.9 -4.0 13.0 13.5 3.8 Motor Gasoline 5.4 4.5 -16.7 3.9 4.2 7.7 4.8 4.9 2.1 4.9 4.5 -8.2 3.6 4.4 22.2 Middle Distillate 2.5.2 16.5 -34.5 2.2.3 18.6 -16.6 21.9 19.3 -11.9 2.3.1 19.7 -14.7 22.9 17.2 -24.9 Residual Fuel Oil 1.8 1.3 -27.8 2.0 0.7 -65.0 1.8 1.1 -38.9 1.9 1.5 -21.1 1.7 2.1 23.5 3.5 3.5 3.6 2.2 1.3.1 31.4 27.3 1.3.1 Other Products 35.9 25.8 -2.4 46.9 -10.8 33.6 2.9.2 1.3.1 31.4 27.3 1.3.1 Other Statis																
Crude 12.3 12.4 0.8 12.8 12.1 -5.5 12.8 10.2 -0.3 12.4 11.9 -4.0 13.0 13.5 3.8 Motor Gasoline 5.4 4.5 16.5 34.5 22.3 18.6 16.6 21.9 19.3 -1.19 23.1 19.7 -14.7 22.9 17.2 24.9 Residual Fuel Oil 1.8 1.3 -27.8 2.0 0.7 -65.0 1.8 1.1 -38.9 1.9 1.5 -21.1 1.7 2.1 2.3.5 Other Products 3.5 3.5 0.0 3.5 3.6 2.9 3.4 3.8 11.8 3.7 3.5 -5.4 3.2 3.6 1.2.5 Total 7.01 7.9 7.1 -10.1 7.9 7.6 -3.8 7.8 8.2 5.1 8.4 7.7 -8.3 Total 5.0 1.4 46.3 -11.6 5.6 46.9 -10.8 5.8 49.3 -8.4 5.8 49.3 -8.4 5.8 7.8 7.7		109.2	98.0	-10.3	113.8	100.7	-11.5	113.8	101.9	-10.5	118.8	104.4	-12.1	115.8	103.8	-10.4
Motor Gasoline 5.4 4.5 16.7 3.9 4.2 7.7 4.8 4.9 2.1 4.9 4.5 -8.2 3.6 4.4 22.2 Middle Distillate 25.2 16.5 -34.5 22.3 18.6 -16.6 21.9 19.3 -11.9 23.1 19.7 7.4.7 22.9 17.2 -24.9 Residual Fuel Oit 1.8 1.3 -27.8 2.0 0.7 -65.0 1.8 1.1 -3.8 1.8 3.7 3.5 5.4 3.2 3.6 2.5 -2.8 3.6 2.9 -3.1 3.9 2.9 -3.8 7.8 8.2 5.1 31.4 27.3 -3.1 Other 7.9 7.1 1.0 7.9 7.1 7.6 8.3 6.6 9.2 2.6 6.7 1.0 9.9 9.11.2 9.6 9.7 1.0 9.9 9.11.2 9.6 9.7 1.0 9.9 9.1 2.9 6.7 7.0 9.0 4.4 9.9 9.1 9.9 9.1 9.9 9.1 9.9		40.0	40.4		10.0	40.4		10.0	40.0		10.1			10.0	40.5	
Middle Distillate 25.2 16.5 34.5 22.3 18.6 -16.6 21.9 19.3 -11.9 23.1 19.7 -14.7 22.9 17.2 -24.9 Residual Fuel Oil 1.8 1.3 -27.8 2.0 0.7 -65.0 1.8 1.1 -38.9 1.9 1.5 -21.1 1.7 2.2 3.6 12.5 Other Products 35.9 25.8 -28.1 31.7 27.1 -14.5 31.9 29.1 -8.8 33.6 29.2 -13.1 31.4 27.3 -13.1 Other 7.9 7.1 -10.1 7.9 7.6 -3.8 7.8 8.2 5.1 8.4 7.7 -8.3 Other 7.0 7.1 -10.1 7.9 7.6 -3.8 6.0 29.3 23.9 -1.0 9.0 9.4 4.4 Otder Gasoline 10.3 9.6 -6.8 9.3 9.2 -1.1 8.9 9.9 11.2 9.6 9.7 1.0 9.0 9.4 4.4 Midele Distillate 2.9.4																
Residual Fuel Oil 1.8 1.3 -27.8 2.0 0.7 -65.0 1.8 1.1 -38.9 1.9 1.5 -21.1 1.7 2.1 2.3 3.6 1.2 3.4 3.8 11.8 3.7 3.5 -5.4 3.2 3.6 1.2 3.1 7.1 1.1 7.9 7.1 1.1 7.9 7.1 1.1 7.9 7.1 1.1 7.9 7.1 1.1 7.9 7.1 1.1 7.9 7.1 1.1 7.9 7.1 1.1 7.9 7.1 7.0 7.9 7.6 -3.8 7.8 8.2 5.1 8.4 7.7 8.3 Other Middle Distillate 56.1 45.3 9.2 2.1.1 8.9 9.9 9.12 9.6 9.7 1.0 9.0 9.4 4.4 Middle Distillate 29.4 19.8 3.2.7 20.0 18.2 -30.0 25.4 19.8 22.0 25.6 1.3 2.4.6 2.8.6 6.0 9.7 1.0 9.0 9.4 4.4 9.9 1.3 -2.6																
Total Products 35.9 25.8 -28.1 31.7 27.1 -14.5 31.9 29.1 -8.8 33.6 29.2 -13.1 31.4 27.3 -13.1 Other ³ 7.9 7.1 -10.1 7.9 7.1 -10.1 7.9 7.6 -3.8 7.8 8.2 5.1 8.4 7.7 -8.3 Total 56.1 45.3 -19.3 52.4 46.3 -11.6 52.6 46.9 -10.8 53.8 49.3 -8.4 52.8 48.5 -8.1 United Kingdom Crude 24.2 26.2 8.3 26.5 26.3 -0.8 24.8 26.3 0.0 29.3 23.9 -18.4 26.5 23.6 -10.3 0.9 9.4 4.4 Middle Distillate 29.4 19.8 -32.7 26.0 18.2 -30.0 25.4 19.8 -22.0 25.6 19.3 -24.6 24.2 18.9 -21.9 Residual Fuel Oil 1.2 1.5 50.0 1.4 1.4 0.0 13.3 17.7 0.3	Residual Fuel Oil				2.0			1.8				1.5	-21.1	1.7		
Other ³ 7.9 7.1 1.0.1 7.9 7.6 -3.8 7.8 8.2 5.1 8.4 7.7 -8.3 Total 56.1 45.3 -19.3 52.4 46.3 -11.6 52.6 46.9 -10.8 53.8 49.3 -8.4 52.8 48.5 -8.1 United Kingdom Guide 24.2 26.2 8.3 26.5 26.3 -0.8 24.8 26.3 6.0 29.3 23.9 -18.4 26.5 23.6 -10.9 9.9 4.4 Middle Distillate 29.4 19.8 -32.7 26.0 18.2 -30.0 25.4 19.8 -22.0 25.6 19.3 -24.6 24.2 18.9 -21.9 Residual Fuel Oil 1.2 1.5 25.0 1.4 1.4 0.0 1.3 1.7.3 0.8 1.5 1.7 13.3 1.3 1.3 0.0 Other Products 6.3 6.3 0.0 5.8 -1.7 6.3 <																
Total 56.1 45.3 19.3 52.4 46.3 11.6 52.6 46.9 10.8 53.8 49.3 -8.4 52.8 48.5 -8.1 United Kingdom Crude 24.2 26.2 8.3 26.5 26.3 0.8 24.8 26.3 6.0 29.3 23.9 -18.4 26.5 23.6 -10.9 Motor Gasoline 10.3 9.6 -6.8 9.3 9.2 -1.1 8.9 9.9 11.2 9.6 9.7 1.0 9.0 9.4 4.4 Middle Distillate 29.4 19.8 -22.0 25.6 19.3 -24.6 18.9 -21.9 1.5 1.7 1.3.3 1.3 1.3 0.0 Other Products 6.3 6.3 0.0 5.9 5.8 -1.7 6.3 6.8 7.9 6.6 6.8 3.0 6.4 6.8 6.4 6.8 6.4 6.8 6.2 6.2 6.2 7.2 -1.8																
United Kingdom Crude 24.2 26.2 8.3 26.5 26.3 0.8 24.8 26.3 6.0 29.3 23.9 18.4 26.5 23.6 10.9 Motor Gasoline 10.3 9.6 -6.8 9.3 9.2 -1.1 8.9 9.9 11.2 9.6 9.7 1.0 9.0 9.4 4.4 Middle Distillate 29.4 19.8 -22.0 25.6 19.3 -24.6 24.2 18.9 -21.8 9.9 1.2 1.5 1.8 9.9 1.5 1.7 1.3 1.3 1.3 1.3 0.0 0.4 4.4 1.4 0.0 1.3 1.7 30.8 1.5 1.7 1.3.3 1.3 1.3 0.0 Other Products 6.3 6.3 0.0 5.9 5.8 1.7 6.3 6.8 7.9 6.6 6.8 3.0 6.4 6.8 4.10 Other 7.1 7.9 11.3 7.8																
Crude 24.2 26.2 8.3 26.5 26.3 0.8 24.8 26.3 6.0 29.3 23.9 18.4 26.5 23.6 -10.9 Motor Gasoline 10.3 9.6 -6.8 9.3 9.2 -1.1 8.9 9.9 9.12 9.6 9.7 1.0 9.0 9.4 4.4 Middle Distillate 29.4 1.8 -22.0 25.6 19.3 -24.6 24.2 18.9 -21.0 9.6 9.7 1.0 9.0 9.4 4.4 Residual Fuel Oil 1.2 1.5 25.0 1.4 1.4 0.0 1.3 1.7 30.8 1.5 1.7 13.3 1.3 1.3 0.0 Other Products 6.3 6.3 0.0 5.9 5.8 -1.7 6.3 6.8 7.0 6.6 6.8 3.0 6.4 6.8 4.10 Other 7.1 7.9 11.3 7.8 7.7 -1.3 7.9 7.5 -5.1 8.1 6.8 -16.0 8.8 7.2 -18.4		56.1	45.3	-19.3	52.4	46.3	-11.6	52.6	46.9	-10.8	53.8	49.3	-8.4	52.8	48.5	-8.1
Motor Gasoline 10.3 9.6 -6.8 9.3 9.2 -1.1 8.9 9.9 11.2 9.6 9.7 1.0 9.0 9.4 4.4 Middle Distillate 29.4 19.8 -32.7 26.0 18.2 -30.0 25.4 19.8 -22.0 25.6 19.3 -24.6 24.2 18.9 -21.9 Residual Fuel Oil 1.2 1.5 25.0 1.4 1.4 0.0 1.3 1.7 30.8 1.5 1.7 13.3 1.3 1.3 0.0 Other Products 6.3 6.3 0.0 5.9 5.8 -1.7 6.3 6.8 7.9 6.6 6.8 3.0 6.4 6.8 0.0 6.4 6.8 0.0 6.4 4.6 6.2 Total Products 47.2 37.2 -21.2 42.6 34.6 -18.8 41.9 38.2 -8.8 43.3 37.5 -13.4 40.9 36.4 -11.0 Other A 74.5 71.3 -9.2 76.9 68.6 10.8 74.6 72.0		24.2	26.2	83	26 5	26.3	-0 S	24 R	26.3	60	20.2	23.0	-18 4	26.5	23.6	-10 9
Middle Distillate 29.4 19.8 -32.7 26.0 18.2 -30.0 25.4 19.8 -22.0 25.6 19.3 -24.6 24.2 18.9 -21.9 Residual Fuel Oil 1.2 1.5 25.0 1.4 1.4 0.0 1.3 1.7 30.8 1.5 1.7 13.3 1.3 1.3 0.0 Other Products 6.3 6.3 0.0 5.9 5.8 1.7 6.3 6.8 7.9 6.6 6.8 3.0 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.4 6.8 6.2 7.5 5.1 8.1 6.8 16.0 8.8 7.2 1.82 7.4 7.9 7.5 5.5 80.7 68.2 15.5 7.6.2 67.2 1.1.8 Condat Total 78.5 71.3 79.7 12.5 73.1																
Other Products 6.3 6.3 0.0 5.9 5.8 -1.7 6.3 6.8 7.9 6.6 6.8 3.0 6.4 6.8 6.2 Total Products 47.2 37.2 -21.2 42.6 34.6 -18.8 41.9 38.2 -8.8 43.3 37.5 13.4 40.9 36.4 -11.0 Other ³ 7.1 7.9 11.3 7.8 7.7 -1.3 7.9 7.5 -5.1 8.1 6.8 -16.0 8.8 7.2 -18.2 Total 78.5 71.3 -9.2 76.9 68.6 -10.8 72.0 -3.5 80.7 68.2 -15.5 76.2 67.2 11.7 Cradat Crude 124.8 122.4 -1.9 129.0 120.7 -6.4 129.3 125.8 -2.7 127.9 121.1 -5.3 130.4 117.2 -10.1 Motor Gasoline 16.4 16.6 1.2 16.2 16.7 3.1 </td <td>Middle Distillate</td> <td>29.4</td> <td>19.8</td> <td>-32.7</td> <td>26.0</td> <td>18.2</td> <td>-30.0</td> <td>25.4</td> <td>19.8</td> <td>-22.0</td> <td>25.6</td> <td>19.3</td> <td>-24.6</td> <td>24.2</td> <td>18.9</td> <td>-21.9</td>	Middle Distillate	29.4	19.8	-32.7	26.0	18.2	-30.0	25.4	19.8	-22.0	25.6	19.3	-24.6	24.2	18.9	-21.9
Total Products 47.2 37.2 -21.2 42.6 34.6 -18.8 41.9 38.2 -8.8 43.3 37.5 -13.4 40.9 36.4 -11.0 Other ³ 7.1 7.9 11.3 7.8 7.7 -1.3 7.9 7.5 -5.1 8.1 6.8 16.0 8.8 7.2 -18.2 Total 78.5 71.3 -9.2 76.9 68.6 -10.8 74.6 72.0 -3.5 80.7 68.2 16.8 16.2 67.2 17.2 -18.3 Canada ⁴ 70.0 124.8 122.4 -1.9 129.0 120.7 -6.4 129.3 125.8 -2.7 127.9 121.1 -5.3 130.4 117.2 -10.1 Motor Gasoline 16.4 16.6 1.2 16.2 16.7 3.1 16.8 15.4 -8.3 15.5 13.5 12.9 14.4 13.8 -6.8 Middle Distillate 20.3 18.0 -11.3 19.7 19.2 -2.5 20.0 19.4 -30.3 17.6 18.6																
Other ³ 7.1 7.9 11.3 7.8 7.7 -1.3 7.9 7.5 -5.1 8.1 6.8 -16.0 8.8 7.2 -18.2 Total 78.5 71.3 -9.2 76.9 68.6 -10.8 74.6 72.0 -3.5 80.7 68.2 -15.5 76.2 67.2 -11.8 Canada ⁴ C 124.8 122.4 -1.9 120.7 -6.4 129.3 125.8 -2.7 127.9 121.1 -5.3 130.4 117.2 -10.1 Motor Gasoline 16.4 16.6 1.2 16.2 16.7 3.1 16.8 15.4 8.3 15.5 13.5 12.5 13.6 6.8 Middle Distillate 20.3 18.0 -11.3 19.7 19.2 -2.5 20.0 19.4 -3.0 17.6 18.6 5.7 18.4 18.4 6.8 Middle Distillate 2.3 2.2 4.3 3.0 2.4 -20.0 <																
Canada ⁴ Crude 124.8 122.4 -1.9 129.0 120.7 -6.4 129.3 125.8 -2.7 127.9 121.1 -5.3 130.4 117.2 -10.1 Motor Gasoline 16.4 16.6 1.2 16.2 16.7 3.1 16.8 15.4 -8.3 15.5 13.5 -12.9 14.8 13.8 -6.8 Middle Distillate 20.3 18.0 -11.3 19.7 19.2 -2.5 20.0 19.4 -3.0 17.6 18.6 5.7 18.4 18.4 0.0 Residual Fuel Oil 2.3 2.2 -4.3 3.0 2.4 -20.0 2.2 1.9 -13.6 3.3 2.7 -18.2 2.6 2.1 -19.2 Other Products 12.5 12.9 3.2 12.5 13.3 6.4 11.9 13.6 14.3 12.4 13.5 8.9 12.2 13.4 9.8 Total Products 51.5 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																
Canada ⁴ Crude 124.8 122.4 -1.9 129.0 120.7 -6.4 129.3 125.8 -2.7 127.9 121.1 -5.3 130.4 117.2 -10.1 Motor Gasoline 16.4 16.6 1.2 16.2 16.7 3.1 16.8 15.4 -8.3 15.5 13.5 -12.9 14.8 13.8 -6.8 Middle Distillate 20.3 18.0 -11.3 19.7 19.2 -2.5 20.0 19.4 -3.0 17.6 18.6 5.7 18.4 18.4 0.0 Residual Fuel Oil 2.3 2.2 -4.3 3.0 2.4 -20.0 2.2 1.9 -13.6 3.3 2.7 -18.2 2.6 2.1 -19.2 Other Products 12.5 12.9 3.2 12.5 13.3 6.4 11.9 13.6 14.3 12.4 13.5 8.9 12.2 13.4 9.8 Total Products 51.5 <t< td=""><td>Total</td><td>78.5</td><td>71.3</td><td>-9.2</td><td>76.9</td><td>68.6</td><td>-10.8</td><td>74.6</td><td>72.0</td><td>-3.5</td><td>80.7</td><td>68.2</td><td>-15.5</td><td>76.2</td><td>67.2</td><td>-11.8</td></t<>	Total	78.5	71.3	-9.2	76.9	68.6	-10.8	74.6	72.0	-3.5	80.7	68.2	-15.5	76.2	67.2	-11.8
Crude 124.8 122.4 -1.9 129.0 120.7 -6.4 129.3 125.8 -2.7 127.9 121.1 -5.3 130.4 117.2 -10.1 Motor Gasoline 16.4 16.6 1.2 16.2 16.7 3.1 16.8 15.4 -8.3 15.5 13.5 -12.9 14.8 13.8 -6.8 Middle Distillate 20.3 18.0 -11.3 19.7 19.2 -2.5 20.0 19.4 -3.0 17.6 18.6 5.7 18.4 18.4 0.0 Residual Fuel Oil 2.3 2.2 -4.3 3.0 2.4 -20.0 2.2 1.9 -13.6 3.3 2.7 18.2 2.6 2.1 -19.2 Other Products 12.5 12.9 3.2 12.5 13.3 6.4 11.9 13.6 14.3 12.4 13.5 8.9 12.2 13.4 9.8 Total Products 51.5 49.7 -3.5 51.4 51.																
Middle Distillate 20.3 18.0 -11.3 19.7 19.2 -2.5 20.0 19.4 -3.0 17.6 18.6 5.7 18.4 18.4 0.0 Residual Fuel Oil 2.3 2.2 -4.3 3.0 2.4 -20.0 2.2 1.9 -13.6 3.3 2.7 -18.2 2.6 2.1 -19.2 Other Products 12.5 12.9 3.2 12.5 13.3 6.4 11.9 13.6 14.3 12.4 13.5 8.9 12.2 13.4 9.8 Total Products 51.5 49.7 -3.5 51.4 51.6 0.4 50.9 50.3 -1.2 48.8 48.3 -1.0 48.0 47.7 -0.6 Other ³ 20.2 16.4 -18.8 17.9 15.9 -11.2 19.0 17.1 -10.0 21.8 19.6 -10.1 23.2 19.3 -16.8	Crude	124.8	122.4	-1.9	129.0	120.7	-6.4	129.3	125.8	-2.7	127.9	121.1	-5.3	130.4	117.2	-10.1
Residual Fuel Oil 2.3 2.2 -4.3 3.0 2.4 -20.0 2.2 1.9 -13.6 3.3 2.7 -18.2 2.6 2.1 -19.2 Other Products 12.5 12.9 3.2 12.5 13.3 6.4 11.9 13.6 14.3 12.4 13.5 8.9 12.2 13.4 9.8 Total Products 51.5 49.7 -3.5 51.4 51.6 0.4 50.9 50.3 -1.2 48.8 48.3 -1.0 48.0 47.7 -0.6 Other ³ 20.2 16.4 -18.8 17.9 15.9 -11.2 19.0 17.1 -10.0 21.8 19.6 -10.1 23.2 19.3 -16.8																
Other Products 12.5 12.9 3.2 12.5 13.3 6.4 11.9 13.6 14.3 12.4 13.5 8.9 12.2 13.4 9.8 Total Products 51.5 49.7 -3.5 51.4 51.6 0.4 50.9 50.3 -1.2 48.8 48.3 -1.0 48.0 47.7 -0.6 Other ³ 20.2 16.4 -18.8 17.9 15.9 -11.2 19.0 17.1 -10.0 21.8 19.6 -10.1 23.2 19.3 -1.68																
Total Products 51.5 49.7 -3.5 51.4 51.6 0.4 50.9 50.3 -1.2 48.8 48.3 -1.0 48.0 47.7 -0.6 Other ³ 20.2 16.4 -18.8 17.9 15.9 -11.2 19.0 17.1 -10.0 21.8 19.6 -10.1 23.2 19.3 -16.8																
Other ³ 20.2 16.4 -18.8 17.9 15.9 -11.2 19.0 17.1 -10.0 21.8 19.6 -10.1 23.2 19.3 -16.8																
Total 196.5 188.5 -4.1 198.3 188.2 -5.1 199.2 193.2 -3.0 198.5 189.0 -4.8 201.6 184.2 -8.6	Other ³		16.4	-18.8								19.6	-10.1		19.3	-16.8
	Total	196.5	188.5	-4.1	198.3	188.2	-5.1	199.2	193.2	-3.0	198.5	189.0	-4.8	201.6	184.2	-8.6

Stocks are primary national territory stocks on land (excluding utilitity stocks and including pipeline and entrepot stocks where known) and include stocks held by industry to meet IEA, EU and national emergency reserve commitments and are subject to government control in emergencies.
 US figures exclude US territories.
 Other includes NGLs, refinery feedstocks, additives/oxygenates and other hydrocarbons.
 Canadian stock information for recent months is the administration's best estimate. Data are usually finalised three months after first publication.

				Tab	le 5					
		ΤΟΤΑ	L STOCK			D COUNTR	RIES ¹			
				('millions of barr	els' and 'days')					
	End	d June 2021	End Septe	mber 2021	End Dece	mber 2021	End I	March 2022	En	d June 202
	Stock	Days Fwd ²		Days Fwd		Days Fwd		Days Fwd	Stock	Days Fwd
	Level	Demand	Level	Demand	Level	Demand	Level	Demand	Level	Demand
OECD Americas										
Canada	201.6	83	198.3	85	202.3	90	188.1	86	184.3	
Chile	11.7	30	10.3	27	10.8	28	10.3	28	9.9	
Mexico	36.4	24	36.0	22	36.7	22	35.7	20	36.6	
United States ^⁴	1904.7	94	1870.7	91	1794.3	89	1721.7	85	1675.0	
Total ⁴	2176.5	88	2137.4	86	2066.3	84	1977.9	80	1927.9	7
OECD Asia Oceania										
Australia	39.6	41	40.9	39	37.6	36	40.0	37	38.1	
Israel	-	-	-	-	-	-	-	-	-	
Japan	528.6	167	525.1	144	519.4	140	500.5	165	502.8	
Korea	194.9	75	189.3	70	168.8	62	174.6	70	165.9	
New Zealand	7.6	56	8.3	53	6.8	44	6.2	43	6.0	
Total	770.7	109	763.5	98	732.6	93	721.4	103	712.8	99
DECD Europe⁵										
Austria	23.0	82	21.1	81	20.9	85	24.1	99	20.1	
Belgium	51.0	83	47.1	71	43.3	68	42.9	74	44.8	
Czech Republic	21.8	93	21.7	97	22.5	107	22.2	100	22.3	
Denmark	27.2	182	24.3	163	22.7	160	21.4	142	22.9	
Estonia	2.9	88	2.7	90	2.5	90	2.6	77	2.3	
Finland	39.5	210	37.3	192	36.2	189	38.4	209	41.0	
France	163.0	100	157.3	97	151.6	98	148.8	99	144.6	
Germany	275.7	124	270.4	116	268.9	127	268.8	126	267.8	
Greece	30.5	100	270.4	90	200.5	107	200.0	97	28.7	
Hungary	25.6	131	25.9	134	27.0	143	28.0	152	29.2	
reland	12.0	84	10.6	67	10.8	70	10.6	72	10.3	
taly	128.9	102	118.0	94	112.5	96	116.3	94	119.3	
Latvia	3.0	70	2.7	54 75	2.6	76	2.8	79	2.8	
Lithuania	8.5	113	9.1	132	8.2	137	2.0	161	8.4	
Luxembourg	0.8	13	0.5	9	0.6	137	9.0	11	0.7	
Netherlands	147.2	171	125.8	151	109.5	130	123.9	139	127.1	
Norway	23.6	104	20.2	85	21.4	112	26.3	171	25.5	
Poland	80.0	104	78.1	104	80.6	112	82.8	113	82.4	
	19.9	91	19.0	83	20.9	89	21.3	84	02.4 22.5	
Portugal Slovak Ropublic	19.9	125	19.0	127	20.9	89 134		84 135	22.5 13.2	
Slovak Republic Slovenia	12.3	125	4.9	99	5.2	134	12.8 4.6	86	4.8	
		96		99 89		84	4.6 106.6	80	4.8 107.9	
Spain	118.8 45.2		111.6 38.3		104.9		106.6			
Sweden		141		120	30.1	99		106	30.2	
Switzerland	32.9	177	33.4	156	31.5	168	30.2	173	29.9	
Republic of Türkiye	85.1	74	85.6	82	87.4	96	87.6	86	87.8	
United Kingdom	76.2	59	71.6	53	72.8	55	68.6	49	67.3	-
Total	1460.1	105	1376.0	99	1336.2	102	1358.7	101	1363.9	9
Total OECD	4407.3	96	4277.0	92	4135.1	91	4058.0	90	4004.6	87

 DATS OF IEA Net Imports*
 Io/
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DAYS OF IEA Net Imports⁶ -

12019 4483 12019 4488 12019 4482 12020 4518 12020 4518 12020 4778 12020 4773 12020 4578 12021 4472 12021 4477 12021 4477 12021 4475 12021 4475 12021 4475 12021 4058		TOTAL C	ECD STOCKS			
CLOSING STOCKS	Total	Government ¹ controlled <i>Millions of Barrels</i>	Industry	Total	Government ¹ controlled Days of Fwd. Deman	Industry
2Q2019		1549 1544	2934 2944	93 94	32 32	61 62
4Q2019		1535	2893	94 98	32	64
1Q2020 2Q2020		1537 1561	2981 3217	121 113	41 37	80 76
3Q2020	4732	1551	3181	110	36	74
4Q2020 1Q2021		1541 1546	3037 2927	108 102	36 35	72 67
2Q2021 3Q2021		1524 1513	2884 2764	96 92	33 32	63 59
4Q2021	4135	1484	2651	91	32	58
1Q2022 2Q2022	4058	1442 1343	2616 2661	90 87	32 29	58 57

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1 Includes government-owned stocks and stock holding organisation stocks held for emergency purposes. 2 Days of forward demand calculated using actual demand except in 2Q2022 (where latest forecasts are used).

Tables

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					Table							
IEA	MEMI	BER C	OUNTRY	Y DESTIN ۳	ATION		SELECT	ED CRUI	DE STR	REAMS ¹		
											Year E	arlier
_	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22	Jun 21	change
Saudi Light & Extra Light												
Americas	0.20	0.26	0.34	0.45	0.43	0.44	0.46	0.40	0.47	0.50	0.41	0.09
Europe Asia Oceania	0.68 1.42	0.59 1.39	0.48 1.30	0.55 1.18	0.55 1.48	0.53 1.57	0.67 1.36	0.78 1.59	0.57 1.33	0.65 1.17	0.41 1.10	0.24 0.07
Saudi Medium												
Americas	0.12	0.14	0.01	-	-	-	-	-	-	-	-	-
Europe Asia Oceania	0.02 0.23	0.02 0.25	0.01 0.21	0.02 0.19	- 0.26	0.00 0.20	0.04 0.26	0.29	- 0.22	0.12 0.26	0.18	0.08
Canada Heavy												
Americas	2.27	2.39	2.59	2.47	2.82	2.69	2.50	2.60	2.54	2.37	2.42	-0.06
Europe Asia Oceania	0.04 0.00	0.03 0.00	0.03 0.02	0.04 0.01	0.03 0.00	0.03 0.01	0.09 0.01	0.07 0.02	0.12	0.08	0.02 0.05	0.06
Iraqi Basrah Light ²												
Americas	0.31	0.11	0.08	0.04	0.17	0.16	0.32	0.29	0.35	0.31	-	-
Europe	0.85	0.58	0.61	0.60	0.67	0.61	0.54	0.55	0.59	0.49	0.72	-0.22
Asia Oceania	0.37	0.22	0.17	0.16	0.19	0.17	0.20	0.19	0.19	0.23	0.13	0.10
Kuwait Blend Americas	-	_			-	-	-	_			-	_
Europe	0.11	0.04	-	-	-	-	-	-	-	-	-	-
Asia Oceania	0.61	0.55	0.48	0.47	0.52	0.58	0.42	0.54	0.35	0.38	0.43	-0.05
Iranian Light												
Americas Europe	- 0.00				-	-	-	-	-	-	-	
Asia Oceania	0.00	-	-	-	-	-	-	-	-	-	-	-
Iranian Heavy ³												
Americas	-	-	-	-	-	-	-	-	-	-	-	-
Europe Asia Oceania	0.04 0.14	-	-	-	-	-	-	-	-	-	-	-
BFOE												
Americas	0.00	-	0.00	0.01	-	-	-	-	-	-	0.00	-
Europe	0.37	0.42	0.36	0.36	0.40	0.38	0.44	0.42	0.55	0.36	0.18	0.17
Asia Oceania	0.01	0.03	0.05	-	0.05	0.02	0.06	0.07	0.06	0.04	0.03	0.00
Kazakhstan Americas	-	-	0.01		-	-	_	-	-		-	-
Europe	0.76	0.74	0.68	0.64	0.64	0.86	0.64	0.70	0.57	0.65	0.65	0.00
Asia Oceania	0.18	0.07	0.09	0.10	0.10	0.14	0.16	0.18	0.10	0.21	0.10	0.11
Venezuelan 22 API and hea Americas	avier 0.05		_	_	_	_	_	_		_	_	_
Europe	0.05	0.04	-		-	-	-	-	-	-	-	-
Asia Oceania	-	-	-	-	-	-	-	-	-	-	-	-
Mexican Maya												
Americas	0.51	0.48	0.40	0.45	0.32	0.36	0.47	0.39	0.56	0.45	0.54	-0.09
Europe Asia Oceania	0.19 0.13	0.16 0.12	0.14 0.14	0.13 0.14	0.12 0.13	0.11 0.08	0.07 0.05	0.07 0.05	0.06 0.03	0.07 0.07	0.17 0.10	-0.10 -0.03
Russian Urals												
Americas	0.01	-	-	-	-	-	-	-	-	-	-	-
Europe Asia Oceania	1.37	1.12	1.05 0.01	1.08 0.03	1.14	1.08	0.79	0.87	0.71	0.79	1.13	-0.34
Cabinda and Other Angola			0.01	0.00								
North America	0.01	0.01	-	-	-	-	-	-	-	-	-	-
Europe	0.15	0.12	0.03	0.03	0.04	0.06	0.26	0.15	0.21	0.41	0.03	0.38
Pacific	0.00	-	-	-	-	-	-	-	-	-	-	-
Nigerian Light ⁴ Americas	0.03	-	0.02	0.03	-	-	-	-	-	-	0.07	-
Europe	0.03	0.49	0.02	0.03	0.52	- 0.47	0.43	0.42	0.42	0.45	0.07	0.10
Asia Oceania	0.02	0.02	0.01	-	0.01	-	-	-	-	-	-	-
Libya Light and Medium			0.65									
Americas Europe	0.00 0.67	- 0.19	0.02 0.79	0.06 0.87	- 0.75	- 0.66	- 0.51	- 0.73	- 0.49	- 0.30	- 0.73	-0.43
Asia Oceania	0.07	0.01	0.02	0.01	0.03	0.00	0.02	0.03	0.43	-	0.01	
1 Data based on monthly submission			ha cruda oil imr							Amoricas inclu		

Data based on monthly submissions from IEA countries to the crude oil import register (in '000 bbl), subject to availability. May differ from Table 8 of the Report. IEA Americas includes United States and Canada. IEA Europe includes all countries in OECD Europe except Estonia, Hungary, Slovenia and Latvia. IEA Asia Oceania includes Australia, New Zealand, Korea and Japan.
 Iraqia Total minus Kirkuk.
 Iranian Total minus funda.
 Bornian Light.
 33° API and lighter (e.g., Bonny Light, Escravos, Qua Iboe and Oso Condensate).

					Tal	ble 7						
				REGIOI			PORTS	,2				
					(thousand b	arrels per day	/)					
												Earlier
	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22	Jun 21	% change
Crude Oil												
Americas	2726	1896	2077	2367	2129	2096	2075	2052	1970	2205	2247	-2%
Europe	9872	8349	8519	8748	9150	8889	9241	9119	9148	9458	8582	10%
Asia Oceania Total OECD	6541 19139	5579 15823	5519 16116	5419 16533	5876 17154	6101 17086	5363 16678	6047 17219	5167 16285	4881 16543	5190 16019	-6% 3%
	19139	13023	10110	10555	17134	17000	10070	17219	10205	10545	10019	3 /0
LPG					05				10		10	000/
Americas Europe	26 434	28 422	21 404	22 378	25 424	39 470	21 501	24 524	16 474	24 505	13 388	86% 30%
Asia Oceania	434 583	422 559	404 563	528	424 528	470 681	501 569	524 569	474 602	505 535	300 610	-12%
Total OECD	1042	1009	988	928	977	1189	1091	1116	1092	1065	1012	5%
	1042	1005	500	520	511	1105	1031	1110	1032	1005	1012	370
Naphtha	-	_	•		6	6	•	10	6	2	_	4001
Americas	5	7	8 512	11	8	6 200	6 403	12	2	6 240	7	-13%
Europe Asia Oceania	347 990	409 1003	512 1146	445 1226	563 1199	399 1078	403 971	500 972	465 930	240 1010	387 1150	-38% -12%
Total OECD	1342	1419	1667	1682	1770	1482	1379	1485	1397	1257	1544	-12%
	1042	1410	1001	1002		1402	1010	1400	1001	1201	1044	1070
Gasoline ³												
Americas	822	577	803	973	565	483	890	723	942	1003	1037	-3%
Europe Asia Oceania	112 110	109 116	106 146	75 125	89 129	102 157	135 174	173 117	126 184	107 221	87 196	23% 13%
Total OECD	1044	801	1054	1172	783	742	1199	1013	1252	1331	1320	13%
												.,.
Jet & Kerosene												
Americas	174	159	164	207	175	120	123	116	114	141	169	-17%
Europe Asia Oceania	520 72	337 60	334 71	349 39	411 82	306 71	446 76	483 53	412 78	445 97	234 80	90% 21%
Total OECD	766	556	569	596	668	497	646	651	605	683	483	41%
						-						
Gasoil/Diesel	440	404	407	454	000	457	70		100	75	474	F7 0/
Americas Europe	118 1300	134 1192	197 1192	154 1173	222 1263	157 1092	76 1146	44 1286	109 1055	75 1099	174 1264	-57% -13%
Asia Oceania	261	328	352	344	377	299	353	280	390	388	357	-13%
Total OECD	1679	1654	1741	1670	1862	1548	1575	1611	1554	1562	1795	-13%
Heavy Fuel Oil Americas	116	143	102	91	104	139	135	122	119	165	152	8%
Europe	223	143 295	374	435	375	302	280	285	295	260	255	8% 2%
Asia Oceania	101	88	119	121	129	117	96	91	72	124	99	25%
Total OECD	440	526	594	648	607	559	511	498	487	549	506	8%
Others Data develo												
Other Products Americas	716	591	580	607	510	496	534	665	461	479	771	-38%
Europe	865	574	575	585	689	490 664	552	633	536	479	558	-38 <i>%</i> -13%
Asia Oceania	261	207	233	239	241	221	183	184	159	207	232	-11%
Total OECD	1842	1372	1389	1431	1439	1381	1268	1482	1155	1172	1561	-25%
Total Deadlinets												
Total Products Americas	1978	1639	1875	2064	1607	1440	1786	1705	1763	1891	2322	-19%
Europe	3800	3339	3497	2004 3441	3815	3335	3463	3884	3363	3144	3174	-19%
Asia Oceania	2378	2360	2630	2623	2686	2624	2422	2267	2416	2582	2724	-5%
Total OECD	8156	7338	8002	8127	8108	7399	7670	7856	7541	7618	8220	-7%
Total Oil												
Total Oil	4702	3535	3050	1101	3706	3535	3061	0757	2722	4006	1660	-10%
Americas Europe	4703 13672	3535 11688	3952 12016	4431 12188	3736 12965	3535 12224	3861 12703	3757 13003	3733 12511	4096 12602	4569 11756	-10% 7%
Asia Oceania	8919	7939	8150	8041	8562	8725	7784	8314	7583	7463	7914	-6%
Total OECD	27294	23162	24117	24661	25263	24485	24348	25075	23827	24161	24239	0%

Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes and converted to barrels.
 Excludes intra-regional trade.
 Includes additives.

		REGIC		ECD IMPC	ORTS FI	IE 7a ROM NO arrels per day	ON-OEC		TRIES ^{1,}	2		
											Veer	Carlier
	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22	Year E Jun 21	ariier % change
Crude Oil												
Americas	2576	1835	1982	2275	2028	2032	2012	1995	1914	2131	2107	1%
Europe	8913	7115	7268	7455	7850	7550	7725	7754	7428	8004	7181	11%
Asia Oceania	5914	5051	4910	4772	5312	5480	4849	5497	4708	4347	4509	-4%
Total OECD	17403	14002	14160	14502	15190	15063	14587	15245	14050	14483	13797	5%
LPG												
Americas	23	22	20	22	25	37	21	24	16	24	13	86%
Europe	303	252	242	245	251	253	250	292	226	232	247	-6%
Asia Oceania	74	58	47	35	33	90	53	70	42	47	35	35%
Total OECD	400	331	309	303	309	379	323	385	283	303	295	3%
Naphtha												
Americas	2	1	4	5	5	3	2	2	1	3	4	-15%
Europe	320	390	425	337	485	338	329	385	363	238	284	-16%
Asia Oceania	895	832	975	1010	1073	942	929	904	905	978	998	-2%
Total OECD	1217	1223	1404	1352	1563	1283	1260	1291	1269	1220	1286	-5%
Gasoline ³												
Americas	308	195	248	312	174	111	233	227	217	257	298	-14%
Europe	108	104	100	70	80	84	114	144	105	91	85	7%
Asia Oceania	84	98	141	125	129	157	174	117	184	221	196	13%
Total OECD	500	397	489	507	384	352	521	488	506	569	580	-2%
Jet & Kerosene												
Americas	41	55	63	65	93	43	33	43	20	37	75	-51%
Europe	464	297	298	309	362	303	399	456	377	364	208	75%
Asia Oceania	72	60	71	39	82	71	75	51	78	97	80	21%
Total OECD	576	413	433	414	537	416	507	551	475	498	364	37%
Gasoil/Diesel												
Americas	86	103	134	94	146	87	26	9	33	36	106	-66%
Europe	1126	1062	1109	1070	1186	1025	1069	1156	998	1054	1153	-9%
Asia Oceania	260	323	352	343	377	299	353	280	390	388	357	9%
Total OECD	1472	1488	1595	1507	1710	1411	1448	1446	1421	1478	1616	-9%
Heavy Fuel Oil												
Americas	102	110	86	78	77	109	101	91	92	120	145	-18%
Europe	202	279	347	417	350	282	270	278	289	243	233	4%
Asia Oceania	100	88	119	121	129	117	96	91	72	124	99	25%
Total OECD	404	477	552	616	555	508	467	461	453	487	477	2%
Other Products												
Americas	543	513	530	556	463	455	471	611	422	380	667	-43%
Europe	629	352	398	398	498	481	387	476	336	352	368	-4%
Asia Oceania	177	130	155	151	150	148	114	124	103	115	182	-37%
Total OECD	1350	995	1083	1105	1111	1083	972	1211	861	847	1216	-30%
Total Products												
Americas	1106	1000	1084	1131	983	844	887	1008	799	857	1309	-35%
Europe	3152	2735	2920	2848	3212	2766	2817	3188	2694	2574	2578	0%
Asia Oceania	1662	1590	1860	1825	1974	1824	1794	1637	1775	1970	1947	1%
Total OECD	5920	5325	5864	5804	6168	5433	5498	5832	5269	5402	5834	-7%
Total Oil												
Americas	3682	2835	3067	3406	3010	2876	2900	3003	2713	2989	3416	-13%
Europe	12064	9850	10188	10303	11062	10316	10543	10941	10122	10579	9759	8%
Asia Oceania	7576	6641	6769	6597	7286	7304	6643	7134	6483	6318	6456	-2%
Total OECD	23322	19327	20024	20306	21358	20496	20085	21077	19319	19885	19630	1%

Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes and converted to barrels.
 Excludes intra-regional trade
 Includes additives

					Tab	le 7b						
			ΙΝΤΙ	ER-REGI	ONAL C	DECD T		ERS ^{1,2}				
											Vear	Earlier
	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22	Jun 21	% change
Crude Oil												
Americas	149	60	95	92	101	64	62	57	56	73	141	-48%
Europe	959	1234	1251	1293	1300	1339	1515	1365	1720	1454	1400	4%
Asia Oceania	628	527	610	646	563	621	514	551	459	533	681	-22%
Total OECD	1736	1821	1956	2031	1964	2023	2091	1974	2235	2060	2222	-7%
LPG												
Americas	3	6	1	0	0	2	0	0	0	0	0	na
Europe	131	171	162	132	173	217	251	232	248	273	141	93%
Asia Oceania	508	501	516	493	495	591	517	500	560	488	575	-15%
Total OECD	642	678	679	625	669	810	768	731	808	762	717	6%
Naphtha												
Americas	3	6	4	6	2	2	4	10	1	2	3	-11%
Europe	27	20	87	108	79	61	73	115	101	2	103	-98%
Asia Oceania	96	170	172	216	126	136	42	69	25	32	152	-79%
Total OECD	125	196	263	330	207	200	119	194	127	37	258	-86%
Gasoline ³												
Americas	514	382	555	661	391	372	656	495	725	746	738	1%
Europe	4	5	6	5	9	18	22	29	20	16	2	886%
Asia Oceania	26	18	5	0	0	0	0	0	0	0	0	-47%
Total OECD	544	404	565	665	400	390	678	524	746	762	740	3%
Jet & Kerosene												
Americas	133	103	101	142	83	78	90	72	95	104	94	10%
Europe	56	40	35	40	49	3	48	27	35	82	26	216%
Asia Oceania	0	0	0	0	0	0	1	2	0	0	0	na
Total OECD	190	144	137	182	132	81	139	101	130	185	120	55%
Gasoil/Diesel												
Americas	32	31	63	60	76	70	50	35	76	39	67	-42%
Europe	174	131	82	103	77	67	77	130	57	45	112	-60%
Asia Oceania	1	4	0	0	0	0	0	0	0	0	0	na
Total OECD	207	166	146	163	152	137	127	165	133	84	179	-53%
Heavy Fuel Oil												
Americas	14	33	16	13	27	31	34	31	27	45	7	552%
Europe	21	16	26	19	25	20	10	6	7	17	22	-22%
Asia Oceania	1	0	0	0	0	0	0	0	0	0	0	na
Total OECD	36	49	42	32	52	50	44	37	34	62	29	116%
Other Products												
Americas	173	78	50	51	47	41	64	54	39	99	104	-5%
Europe	236	222	177	187	191	183	164	158	200	134	191	-29%
Asia Oceania	83	77	78	89	91	73	69	60	55	91	50	83%
Total OECD	493	377	306	326	329	298	297	271	294	324	345	-6%
Total Products	070	620	700	000	605	500	000	607	060	1024	1010	20/
Americas Europe	872 649	639 604	790 577	933 593	625 603	596 569	899 645	697 697	963 668	1034 570	1013 596	2% -4%
Asia Oceania	649 716	604 770	577 771	593 798	713	569 801	628	630	641	570 612	596 777	-4% -21%
Total OECD	2236	2013	2138	2324	1940	1966	2172	2024	2273	2216	2387	-21%
	2230	2013	2130	2324	1340	1300	2.12	2024	2213	2210	2307	- 1 /0
Total Oil												
Americas	1021	699	885	1025	726	660	961	755	1019	1107	1154	-4%
Europe	1608	1838	1828	1886	1903	1908	2161	2062	2389	2023	1996	1%
Asia Oceania	1343	1297	1381	1444	1276	1422	1141	1181	1100	1145	1459	-22%
Total OECD	3972	3835	4093	4355	3905	3989	4263	3998	4508	4276	4609	-7%

Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes and converted to barrels.
 Excludes intra-regional trade
 Includes additives

				Table	e 8							
	REGI	ONAL		CRUDE		RTS B	Y SOU	RCE ¹				
											Year Ea	
	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22	Jun 21	change
OECD Americas												
Venezuela	81		-	-	-	-	-	-		-	-	-
Other Central & South America North Sea	868 148	745 59	719 92	809 92	731 101	780 64	802 62	856 57	747 56	804 73	656 107	148 -34
Other OECD Europe	2	1	3	92	-	- 04	- 02	- 57	- 50	- 13	33	-34
Non-OECD Europe	-	-	-	-	-	-	-	-	-	-	-	-
Former Soviet Union	192	91	229	307	185	103	27	47	24	8	342	-334
Saudi Arabia Kuwait	621 45	588 21	427 21	483 36	520 20	570 24	569 25	478 26	543 24	686 26	469	216
Iran	-	-	3	-		6			-		-	-
Iraq	331	177	152	128	192	225	229	218	234	236	180	56
Oman United Arab Emirates	- 3	- 5	- 17	- 44	- 22	- 10	- 19	- 58	-	-	-	-
Other Middle East	-	-	-	-	-	-	-	-	-	-	-	-
West Africa ²	267	145	228	255	180	171	211	155	252	224	304	-80
Other Africa	137	45	161	167	157	144	131	156	90	148	156	-7
Asia Other	32 0	17 3	25	46	22	-	-		-	-	-	
Total	2726	1896	2077	2367	2129	2096	2075	2052	1970	2205	2247	-43
of which Non-OECD	2576	1835	1982	2275	2028	2032	2012	1995	1914	2131	2107	25
OECD Europe												
Canada	60	95	83	89	55	79	139	71	184	162	74	87
Mexico + USA Venezuela	900 106	1139 44	1168	1204	1245	1260	1376	1295	1536	1292	1326	-34
Other Central & South America	118	208	219	263	194	217	402	183	317	710	340	369
Non-OECD Europe	14	25	23	28	23	20	12	12	10	13	31	-18
Former Soviet Union	4239 792	3504 756	3538 522	3525	3849 501	4060 523	3117 727	3435 775	3032 694	2887 712	3461	-574
Saudi Arabia Kuwait	97	48	0	587 0	0	- 525	- 121		- 094		475	237
Iran	74	6	1	6	-	-	-	-	-	-	-	-
Iraq	1124	814	912	927	1018	881	795	622	810	952	1071	-119
Oman United Arab Emirates	2	-	-	-	-	-	- 31	-	-	93	-	-
Other Middle East	- 3	8	9	12	6	-	6	-	18	-	11	-
West Africa ²	1140	1074	822	842	947	807	1169	1057	1140	1311	636	675
Other Africa	1180	596	1197	1228	1282	997	925	1139	870	767	1150	-382
Asia Other	- 13	0 11	0 1	0 0	- 6	5 3	- 517	- 529	- 497	- 524	-	-
Total	9863	8329	8496	8712	9126	8852	9215	9117	9108	9423	8576	847
of which Non-OECD	8913	7115	7268	7455	7850	7550	7725	7754	7428	8004	7181	823
OECD Asia Oceania												
Canada	5	1	16	5	3	9	6	17	-	-	55	-
Mexico + USA	613	477	496	554	463	582	452	465	395	498	525	-28
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Other Central & South America North Sea	48 10	91 49	110 98	93 87	97 97	129 30	102 56	100 69	96 64	111 35	205 101	-94 -66
Other OECD Europe	-	-	-	-	-	-	-	-	-04	-	-	-00
Non-OECD Europe	-	-	-	-	-	-	-	-	-	-	-	-
Former Soviet Union Saudi Arabia	435	300	335	265	376	405	272	421	164	236	274	-39
Kuwait	1878 666	1867 584	1766 506	1601 493	2020 563	2029 624	1862 472	2151 566	1785 409	1652 441	1480 464	171 -23
Iran	137	-	-	-	-	-	-	-	-	-	-	
Iraq	364	224	167	160	192	172	204	194	189	231	129	102
Oman United Arab Emirates	59 1256	22 1096	32 1083	49 1143	22 1184	28 1145	39 1200	68 1135	48 1326	- 1133	82 880	- 253
Other Middle East	449	387	362	371	301	442	326	361	357	260	363	-103
West Africa ²	56	65	71	67	79	52	61	63	90	29	92	-62
Other Africa	90	42	56	85	39	42	31	23	19	50	51	-1
Non-OECD Asia Other	220 254	161 210	175 241	161 278	153 280	126 277	130 151	169 247	133 91	87 117	156 331	-69 -214
Total	6541	5577	5515	5411	5869	6093	5363	6047	5167	4881	5190	-214 -309
of which Non-OECD	5914	5051	4910	5411 4772	5312	5480	5363 4849	5497	4708	4881 4347	4509	-309 -161
Total OECD Trade	19129	15801	16088	16489	17124	17041	16652	17217	16246	16508	16013	495
of which Non-OECD	17403	14002	14160	14502	15190	15063	14587	15245	14050	14483	13797	686
1 Based on Monthly Oil Ouestionnaire data submi												

1 Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes, and converted to barrels at 7.37 barrels per tonne. Data will differ from Table 6 which is based on submissions in barrels. 2 West Africa includes Angola, Nigeria, Gabon, Equatorial Guniea, Congo and Democratic Republic of Congo.

				Table	9							
F	REGION	IAL OE				ORTS	BY SO					
			(Veer Fe	rlier
	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22	Year Ea Jun 21 c	
OECD Americas Venezuela	4	-	_	-	-	-	-	-	-	-	-	-
Other Central & South America	83	40	41	37	51	12	44	33	50	50	28	22
ARA (Belgium Germany Netherlands)	190	149	193	240	93	124	255	168	230	367	374	-8
Other Europe	296	213	326	380	268	221	364	284	434	372	316	56
FSU	79	57	82	92	57	31	3	9	-	-	69	-
Saudi Arabia	7	6	24	41	-	6	62	59	53	74	84	-11
Algeria	-	4	1	-	-	-	-	-	-	-	-	-
Other Middle East & Africa	14	13	13	15	4	8	14	15	10	18	11	7
Singapore	5	1	4	8	3	-	-	-	-	-	6	-
OECD Asia Oceania	28	21	37	43	30	27	39	44	61	12	48	-36
Non-OECD Asia (excl. Singapore)	116	72	81	116	60	53	108	112	104	110	98	12
Other	0	-	0	-	-	-	0	1	-		-	-
Total ²	822	577	803	973	565	483	890	723	942	1003	1037	-33
of which Non-OECD	308	195	248	312	174	111	233	227	217	257	298	-41
OECD Europe												
OECD Europe OECD Americas	3	2	5	2	0	17	21	29	18	16	2	14
Venezuela	3 0	3 0	5 2	3 5	8	2	21	29 1	2	2	2	- 14
Other Central & South America	3	4	2 7	5 11	- 5	2 14	2 4	2	2	2	- 3	- 3
Non-OECD Europe	18	16	10	10	6	5	4 6	4	-	14		1
FSU	54	31	8	9	2	7	24	33	37	2	3	-1
Saudi Arabia	0	8	3	13	0	0	24 1		1	1	-	
Algeria	0	1	-	15	-	-	12	19	5	13		_
Other Middle East & Africa	8	3	5	3	2	11	8	10	4	10	2	9
Singapore	3	2	0	0	0	1	2	10	3	10	-	-
OECD Asia Oceania	1	1	1	1	1	1	1	-	2		-	-
Non-OECD Asia (excl. Singapore)	0	0	3	2	3	3	2	4	1	3	2	1
Other	21	37	62	15	61	41	53	71	50	39	63	-24
Total ²	112	107	106	75	89	102	135	173	126	107	87	20
of which Non-OECD	108	104	100	70	80	84	114	144	105	91	85	6
OECD Asia Oceania												
OECD Americas	6	4	1	0	0	0	0	0	0	0	0	0
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Other Central & South America	-	-	-	-	-	-	-	-	-	-	-	-
ARA (Belgium Germany Netherlands)	14	4	4	0	0	0	0	0	0	0	0	0
Other Europe	5	10	0	0	0	0	0	0	0	0	0	0
FSU	0	0	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	1	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Other Middle East & Africa	-	1	-	-	-	-	-	-	-	-	-	-
Singapore	46	51	100	96	120	135	121	80	123	160	128	32
Non-OECD Asia (excl. Singapore)	21	37	29	19	0	14	44	27	53	51	59	-7
Other	17	9	12	9	9	9	9	9	9	9	9	0
Total ²	110	116	146	125	129	157	174	117	184	221	196	25
of which Non-OECD	84	98	141	125	129	157	174	117	184	221	196	25
	4044	700	4054	4470	700	740	4400	4040	4050	4004	4000	40
Total OECD Trade ²	1044	799	1054	1172	783	742	1199	1013	1252	1331	1320	12
of which Non-OECD	500	397	489	507	384	352	521	488	506	569	580	-11

1 Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes. 2 Total figure excludes intra-regional trade.

				Table	10							
RE	GIONAI			DIL/DIE	SEL IN Is per day)	IPORT	SBYS	SOURCI	E ¹			
											Year Ea	arlier
	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22	Jun 21	
OECD Americas												
Venezuela	1	-	-	-	-	-	-	-	-	-	-	-
Other Central and South America	38	34	28	24	20	3	6	9	4	6	39	-33
ARA (Belgium Germany Netherlands)	5	11	34	30	22	39	6	-	11	7	48	-42
Other Europe	2	4	5	1	10	2	3	-	8	0	1	-1
FSU	6	12	25	10	33	25	-	-	-	-	32	-
Saudi Arabia	3	8	15	11	18	18	15	-	19	25	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Other Middle East and Africa	2	9	25	18	26	8	-	-	-	-	3	-
Singapore	0	-	2	8	-	2	-	-	-	-	3	-
OECD Asia Oceania	24	16	25	29	44	29	42	35	58	32	17	15
Non-OECD Asia (excl. Singapore)	30	34	27	12	31	0	2	-	2	5	17	-13
Other	7	6	12	11	18	31	3	-	8	-	11	-
Total ²	118	134	197	154	222	157	76	44	109	75	174	-99
of which Non-OECD	86	103	134	94	146	87	26	9	33	36	106	-70
	00	105	134	34	140	07	20	5	55	50	100	-70
OECD Europe												
OECD Americas	138	99	40	55	33	31	61	115	40	29	77	-47
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Other Central and South America	0	3	1	1	3	1	1	1	-	1	-	-
Non-OECD Europe	41	30	35	30	32	39	46	42	37	60	37	23
FSU	608	627	611	546	516	594	467	500	419	482	647	-164
Saudi Arabia	205	193	140	142	153	98	163	115	151	224	149	75
Algeria	0	2	-	-	-	-	-	-	-	-	-	-
Other Middle East and Africa	83	71	158	198	222	137	160	137	192	151	125	26
Singapore	27	17	19	24	22	39	41	91	28	3	14	-10
OECD Asia Oceania	36	32	42	48	44	36	16	15	17	16	35	-20
Non-OECD Asia (excl. Singapore)	152	101	126	122	195	88	149	238	132	78	197	-120
Other	10	15	20	6	43	30	42	33	38	55	-16	71
Total ²	1300	1190	1192	1173	1263	1091	1146	1286	1055	1099	1264	-166
of which Non-OECD	1126	1062	1109	1070	1186	1025	1069	1156	998	1054	1153	-99
	1120	1002	1109	1070	1100	1025	1009	1150	990	1034	1155	-99
OECD Asia Oceania												
OECD Americas	1	4	0	0	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Other Central and South America	-	0	-	-	-	-	-	-	-	-	-	-
ARA (Belgium Germany Netherlands)	-	0	0	0	0	0	0	-	0	0	-	-
Other Europe	-	-	0	-	0	-	-	-	-	-	-	-
FSU	4	2	1	2	1	-	-	-	-	-	1	-
Saudi Arabia	-	-	-		-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Other Middle East and Africa	7	13	4	0	3	-	11	17	5	11	0	11
Singapore	111	91	109	153	110	123	117	88	135	126	124	2
Non-OECD Asia (excl. Singapore)	133	208	229	181	259	168	219	171	237	247	228	19
Other	5	9	8	8	5	8	7	4	13	4	4	0
Total ²	261	328	352	344	377	299	353	280	390	388	357	31
of which Non-OECD	260	323	352	343	377	299	353	280	390	388	357	31
•												
Total OECD Trade ²	1679	1652	1740	1670	1862	1547	1575	1611	1554	1562	1795	-233
of which Non-OECD	1472	1488	1595	1507	1710	1411	1448	1446	1421	1478	1616	-138

1 Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes. 2 Total figure excludes intra-regional trade.

				Table	11							
REGIO	ONAL O	ECD J		D KERC		IMPO	RTS B	Y SOUR	CE ¹			
											Year Ea	rlier
	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22	Jun 21 c	
OECD Americas												
Venezuela	0	-	-	-	-	-	-	-	-	-	-	-
Other Central and South America	7	5	1	-	-	-	-	-	-	-	-	-
ARA (Belgium Germany Netherlands)	-	-	5	14	-	-	0	-	0	-	1	-
Other Europe	0	4	6	6	7	0	1	-	2	0	3	-3
FSU	-	0	4	0	16	3	-	-	-	-	1	-
Saudi Arabia	2	6	6	4	17	5	-	-	-	-	6	-
Algeria	-	1	4	3	5	-	-	-	-	-	-	-
Other Middle East and Africa	10	11	18	14	22	11	10	6	6	17	36	-19
Singapore	3 133	4 100	2 91	5 122	- 76	2 78	2 90	3 72	- 93	3 104	2 90	1 14
OECD Asia Oceania Non-OECD Asia (excl. Singapore)	133	23	91 27	34	33	70 17	90 18	35	93	104	90 31	-13
Other	3	23 4	1	34 4		5	4	- 35	10	-	-	-13
Total ²	174	159	164	207	175	120	123	116	114	141	169	-29
of which Non-OECD	41	55	63	65	93	43	33	43	20	37	75	-38
				00	50	-10			20	01		
OECD Europe	00	40	0		0						0	
OECD Americas Venezuela	20	13	3	1	9	1	4	4	4	4	0	4
Other Central and South America	- 1	-	-	-	-	-	- 1	-	- 2	-	-	-
Non-OECD Europe	2	0	0	-	0	-	4	- 4	2	- 0	-	-
FSU	41	21	27	30	21	20	12	21	, 1	14	24	-10
Saudi Arabia	105	40	27	11	21	37	58	66	45	64	33	31
Algeria	11	.0	5	6	-	3	8	-	-	25	8	17
Other Middle East and Africa	199	155	155	179	168	154	186	200	160	200	157	42
Singapore	29	10	11	23	15	6	11	30	-	4	-	-
OECD Asia Oceania	36	27	32	39	40	2	44	22	32	77	25	52
Non-OECD Asia (excl. Singapore)	73	50	62	59	113	78	95	103	142	37	42	-4
Other	2	10	9	1	22	4	20	20	20	19	-56	75
Total ²	520	336	333	349	411	306	442	471	412	445	234	211
of which Non-OECD	464	297	298	309	362	303	399	456	377	364	208	156
OECD Asia Oceania												
OECD Americas	-	-	0	0	0	0	0	0	0	0	0	0
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Other Central and South America	-	-	-	-	-	-	-	-	-	-	-	-
ARA (Belgium Germany Netherlands)	-	-	0	-	-	-	-	-	-	-	-	-
Other Europe	-	-	0	0	-	-	1	2	-	-	-	-
FSU Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
Algeria Other Middle East and Africa	-	-	- 1	-	-	-	0	0	- 0	-	-	-
Singapore	21	14	16	19	19	26	28	18	23	44	27	17
Non-OECD Asia (excl. Singapore)	21	28	34	19	29	20	38	28	23 39	44	37	10
Other	23	18	21	5	34	25	9	5	17	5	16	-10
Total ²	72	60	71	39	82	71	76	53	78	97	80	17
of which Non-OECD	72	60	71	39	82	71	75	51	78	97	80	17
	12	00			02		15		,0	51		
	-					105		• • •			100	10-
Total OECD Trade ²	766	555	569	596	668	497	642	640	604	682	483	199
of which Non-OECD	576	413	433	414	537	416	507	551	475	498	364	134

1 Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes. 2 Total figure excludes intra-regional trade.

				Table	12							
REGIO	ONAL C	DECD F		OUSAND BAIL		IMPO	RTS B	(SOUR				
			(0)		io por day,							
	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Apr 22	May 22	Jun 22	Year Ea Jun 21	
			-									
OECD Americas												
Venezuela	7	-	-	-	-	-	-	-	-	-	-	-
Other Central and South America	50	52	34	39	44	55	53	22	59	77	57	19
ARA (Belgium Germany Netherlands)	6	12	6	9	9	6	11	-	15	18	-	-
Other Europe	8	21	10	4	18	25	23	31	12	26	7	20
FSU	29	43	34	19	18	46	24	59	-	15	46	-31
Saudi Arabia	2	2	0	-	2	1	12	6	11	20	1	18
Algeria	8	2	7	3	13	-	10	0	21	9	6	3
Other Middle East and Africa	5	10	8	15	0	6	1	3	1	-	29	-
Singapore	1	1	0	2	-	-	-	-	-	-	-	-
OECD Asia Oceania	-	-	0	1	-	-	-	-			-	
Non-OECD Asia (excl. Singapore) Other	0	-	2	0	-	-	-	-	-	-	6	
Total ²	116	143	102	91	104	139	135	122	119	165	152	12
of which Non-OECD	102	110	86	78	77	109	101	91	92	120	145	-26
OECD Europe												
OECD Americas	7	12	24	14	20	13	6	5	7	7	20	-13
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Other Central and South America	5	6	4	10	1	1	3	0	7	0	2	-2
Non-OECD Europe	21	13	12	12	11	17	35	45	33	26	13	13
FSU	144	141	247	315	279	216	119	118	136	103	186	-82
Saudi Arabia	-	2	-	-	-	-	-	-	-	-	-	-
Algeria	0	2	2	2	3	-	13	30	10	-	-	-
Other Middle East and Africa	19	13	14	18	13	11	34	13	52	36	9	27
Singapore	1	3	3	2	2	5	0	0	-	-	13	-
OECD Asia Oceania	14	4	3	5	5	7	4	1	-	10	2	8
Non-OECD Asia (excl. Singapore)	3	-	-	-	-	-	-	-	-	-	-	-
Other	8	93	59	55	41	30	64	70	49	75	8	67
Total ²	222	288	368	433	374	300	278	282	294	257	253	5
of which Non-OECD	202	279	347	417	350	282	270	278	289	243	233	10
OECD Asia Oceania												
OECD Americas	1	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Other Central and South America	-	0	-	-	-	-	-	-	-	-	-	-
ARA (Belgium Germany Netherlands)	-	-	0	0	-	-	0	-	-	0	-	-
Other Europe	-	-	-	-	-	-	-	-	-	-	-	-
FSU	6	5	0	-	-	-	-	-	-	-	-	-
Saudi Arabia	1	1	13	13	25	12	29	20	-	67	22	45
Algeria Other Middle East and Africa	- 27	-	-	-	-	-	-	-	-	-	-	-
	27 25	38 18	30 29	31 22	30 23	6 34	6 21	- 25	-	19 13	17 19	2
Singapore Non-OECD Asia (excl. Singapore)	25 40	18 26	29 47	22 56	23 51	34 64	39	25 47	26 46	13 24	19 41	-6 -17
Other	40	- 20	47	- 50	-	- 04	- 39	- 47	40	- 24	- 41	-17
Total ²	101	88	119	121	129	117	96	91	72	124	99	25
	101											
of which Non-OECD	100	88	119	121	129	117	96	91	72	124	99	25
Total OECD Trade ²	439	519	588	645	607	556	509	496	485	546	504	42
of which Non-OECD	404	477	552	616	555	508	467	461	453	487	477	9

1 Based on Monthly Oil Questionnaire data submitted by OECD countries in tonnes.

2 Total figure excludes intra-regional trade.

						able 1							
AVERAGE	IEA (CIF C	RUD	E COS	T AN	ID SP	OT C	RUDE A	ND PI	RODU	CT PF	RICES	5
						(\$/bbl)							
	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Mar 22	Apr 22	May 22	Jun 22	Jul 22	Aug 22
CRUDE PRICES													
IEA CIF Average Impo	rt ¹												
IEA Europe	64.25	42.91	70.65	73.11	79.49	97.95	110.97	112.50	105.00	109.47	118.53		
IEA Americas	56.93	37.31	64.78	67.32	73.13	86.94	106.21	100.97	101.68	105.65	111.33		
IEA Asia Oceania	66.38	46.28	70.41	74.07	80.92	89.86	113.01	98.74	111.16	110.95	117.54		
IEA Total	62.75	42.19	68.86	71.64	78.02	92.72	110.11	105.58	105.70	108.71	116.22		
SPOT PRICES													
North Sea Dated	64.12	41.76	70.82	73.42	79.67	102.12	113.90	118.75	104.25	113.38	123.62	112.63	99.63
North Sea Dated M1	64.74	42.90	71.51	73.96	80.45	101.45	114.15	117.45	105.54	114.71	121.74	109.85	99.19
WTI (Cushing) M1	57.03	39.25	68.10	70.54	77.33	95.18	108.77	108.52	101.77	109.61	114.59	99.84	91.57
WTI (Houston) M1	61.87	40.71	69.01	71.17	78.27	96.77	109.96	110.25	102.93	110.80	115.83	101.85	93.61
Urals	63.31	41.21	69.00	71.16	78.05	89.49	79.11	89.92	69.58	78.53	88.77	83.05	74.63
Dubai M1	63.49	42.36	69.35	71.60	78.23	96.06	108.12	110.49	102.91	108.08	112.89	102.86	96.43
PRODUCT PRICES ²													
Northwest Europe													
Gasoline	71.24	44.24	79.88	85.33	90.75	110.51	145.57	127.11	125.39	148.24	162.92	130.94	111.23
Diesel	79.32	49.07	78.17	80.59	92.14	125.45	160.41	156.26	151.26	151.68	178.75	152.16	142.81
Jet/Kero	80.20	45.44	77.05	79.54	91.28	123.46	164.80	151.65	154.57	161.88	178.11	146.88	142.85
Naphtha	56.64	39.75	71.36	75.04	82.48	100.24	97.35	113.69	101.89	99.84	90.20	85.62	74.25
HSFO	50.09	33.62	61.04	62.96	67.71	84.41	92.96	96.56	90.60	96.80	91.28	71.47	76.18
0.5% Fuel Oil	80.26	48.16	76.59	78.30	85.28	109.89	125.94	127.40	120.82	121.31	135.92	115.65	106.23
US Gulf Coast													
Gasoline	71.11	47.30	86.49	91.76	95.15	116.70	153.69	134.26	133.04	157.34	169.71	134.83	115.54
Diesel	79.12	50.26	84.73	87.37	97.55	126.70	167.83	151.15	160.19	163.46	179.48	151.92	148.23
Jet/Kero	78.84	46.30	77.95	79.89	92.12	121.54	163.46	145.83	156.92	161.46	171.69	145.44	139.74
Naphtha	59.04	40.12	72.24	75.36	82.52	99.45	105.15	111.97	102.00	101.48	111.82	90.34	87.05
HSFO	52.53	34.71	59.90	62.33	67.41	83.38	93.04	93.44	89.41	94.62	94.92	84.50	81.74
0.5% Fuel Oil	74.08	49.88	79.69	80.73	89.03	114.08	133.17	133.88	127.06	131.87	140.31	125.31	111.24
Singapore													
Gasoline	70.10	45.28	78.49	81.41	91.16	111.63	137.95	127.47	123.18	140.99	149.10	116.35	107.19
Diesel	78.47	49.60	77.80	79.85	90.88	119.08	159.99	142.57	148.30	153.41	177.35	145.27	139.12
Jet/Kero	77.55	45.06	75.29	77.12	88.49	113.53	147.63	134.32	133.96	142.90	165.10	134.90	131.73
Naphtha		40.94				98.04	92.73	111.42	97.40	95.76	85.42	82.70	72.73
HSFO		38.33			70.13		98.18		103.97	98.44	92.45	73.83	74.95
0.5% Fuel Oil		52.85				115.97			124.83		155.05		110.92
			-		-								

1IEA CIF Average Import price for Jun is an estimate.

IEA Europe includes all countries in OECD Europe except Estonia, Hungary and Slovenia.

IEA Americas includes United States and Canada.

IEA Asia Oceania includes Australia, New Zealand, Korea and Japan.

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Table 14 MONTHLY AVERAGE END-USER PRICES FOR PETROLEUM PRODUCTS														
	МС		TAVER	AGE END		August 2022			FPROD					
					*		US DOLLARS							
	Total		ge from	Ex-Tax		nge from	Total	% char	nge from	Ex-Tax	% char	nge from		
	Price	Jul-22	Aug-21	Price	Jul-22	Aug-21	Price	Jul-22	Aug-21	Price	Jul-22	Aug-21		
GASOLINE 1 (p	or litro)													
France	1.802	- 10.3	14.2	0.961	-15.2	54.0	1.826	-10.7	-1.7	0.974	-15.6	32.6		
Germany	1.793	- 3.9	10.8	1.148	-5.0	62.8	1.816	-4.4	-4.6	1.163	-5.5	40.2		
Italy	1.797	- 10.3	8.6	0.995	-14.6	58.4	1.821	-10.8	-6.5	1.008	-15.0	36.4		
Spain	1.828	- 10.5	29.0	1.038	-14.6	48.7	1.852	-10.9	11.1	1.052	-15.0	28.0		
United Kingdom		- 7.6	30.2	0.930	-11.4	71.6	2.099	-7.7	13.0	1.114	-11.5	49.0		
Japan	169.5	- 1.5	7.0	97.5	-2.3	11.7	1.253	-0.4	-13.1	0.721	-1.2	-9.3		
Canada	1.722	- 8.9	21.9	1.238	-11.0	32.4	1.333	-8.7	18.8	0.958	-10.8	29.1		
United States	1.050	- 12.9	25.9	0.919	-14.4	30.5	1.050	-12.9	25.9	0.919	-14.4	30.5		
AUTOMOTIVE	DIESEL FOR	NON CO	MMERCIA	L USE (per lit	tre)									
France	1.859	- 6.6	29.7	1.090	-9.2	86.3	1.883	-7.1	11.7	1,104	-9.6	60.4		
Germany	1.965	- 0.3	41.5	1.321	-0.4	89.5	1.991	-0.8	21.8	1.338	-0.9	63.2		
Italy	1.795	- 8.4	19.3	1.104	-10.9	78.9	1.819	-8.8	2.7	1.118	-11.3	54.0		
Spain	1.850	- 7.5	46.1	1.150	-9.8	72.4	1.874	-8.0	25.8	1.165	-10.2	48.4		
United Kingdom		- 5.8	36.2	1.025	-8.5	82.4	2.236	-5.8	18.3	1.228	-8.5	58.4		
Japan	149.5	- 1.6	8.2	103.9	-2.2	10.9	1.105	-0.5	-12.2	0.768	-1.1	-10.0		
Canada	1.880	- 6.7	42.4	1.426	-7.9	59.0	1.455	-6.5	38.9	1.104	-7.7	55.0		
United States	1.325	- 8.6	49.7	1.174	-9.6	59.7	1.325	-8.6	49.7	1.174	-9.6	59.7		
DOMESTIC HE	ATING OIL (I	per litre)												
France	1.525	- 5.8	70.8	1.115	-6.5	89.6	1.545	-6.2	47.0	1.129	-7.0	63.2		
Germany	1.466	- 0.2	95.0	1.171	-0.2	105.2	1.485	-0.6	67.9	1.186	-0.7	76.7		
Italy	1.816	- 6.5	40.9	1.085	-8.6	66.1	1.840	-6.9	21.3	1.099	-9.1	43.0		
Spain	1.340	- 10.4	81.6	1.010	-11.2	97.0	1.357	-10.8	56.3	1.024	-11.7	69.6		
United Kingdom		- 10.5	74.8	0.862	-11.5	96.0	1.212	-10.5	51.8	1.032	-11.6	70.2		
Japan ²	112.5	- 1.2	18.1	99.5	-1.2	18.8	0.832	-0.0	-4.1	0.735	-0.1	-3.6		
Canada	1.806	- 5.9	47.9	1.609	-6.0	51.9	1.398	-5.8	44.2	1.245	-5.9	48.1		
United States	-	-	-	-	-	-	-	-	-	-	-	-		
LOW SULPHUR		OR INDU	JSTRY 3 (p	per kg)										
France	0.825	0.8	38.3	0.685	1.0	50.0	0.836	0.3	19.1	0.694	0.5	29.1		
Germany	-	-	-	-	-	-	-	-	-	-	-	-		
Italy	0.780	- 1.9	47.9	0.749	-1.9	50.9	0.791	-2.3	27.3	0.759	-2.4	29.9		
Spain	0.712	1.4	53.9	0.695	1.5	56.0	0.721	0.9	32.5	0.704	1.0	34.3		
United Kingdom		-	-	-	-	-	-	-	-	-	-	-		
Japan	-	-	-	-	-	-	-	-	-	-	-	-		
Canada	-	-	-	-	-	-	-	-	-	-	-	-		
United States	-	-	-	-	-	-	-	-	-	-	-	-		

Table 14

Inleaded premium (95 RON) for France, Germany, Italy, Spain, UK; regular unleaded for Canada, Japan and the United States. Kerosene for Japan.
 VAT excluded from prices for low sulphur fuel oil when refunded to industry.

* Prices for France, Germany, Italy and Spain are in Euros; UK in British Pounds, Japan in Yen, Canada in Canadian Dollars.

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	Table 15												
		IEA	Globa	l Indica	itor R	efinin	g Mar	gins					
\$/bbl	2019	2020	2021	3Q21	4Q21	1Q22	2Q22	Mar 22	Apr 22	May 22	Jun 22	Jul 22	Aug 22
NW Europe													
Light sw eet hydroskimming	3.04	1.09	2.51	3.00	4.75	5.35	15.29	9.15	17.09	14.71	14.11	4.89	9.60
Light sw eet cracking	5.41	2.06	3.46	4.14	6.60	8.97	22.13	14.89	23.39	20.31	22.79	12.29	14.77
Light sweet cracking + Petchem	6.92	3.20	6.51	7.07	9.18	11.10	26.42	16.68	28.08	23.75	27.56	15.00	16.73
Medium sour cracking	8.65	4.31	6.09	7.15	7.25	21.99	59.38	44.05	60.08	57.87	60.28	40.00	35.48
Mediumsour cracking + Petchem	10.11	5.42	9.05	9.99	9.76	24.06	63.55	45.80	64.64	61.21	64.91	42.63	37.38
Mediterranean													
Light sweet hydroskimming	4.16	2.37	2.89	3.44	4.41	4.24	13.90	8.61	16.67	12.36	12.76	1.46	8.32
Light sw eet cracking	7.17	3.34	4.94	5.91	7.32	8.90	23.67	14.72	24.34	21.07	25.75	12.04	15.54
Medium sour cracking	10.65	5.76	5.65	6.77	7.76	11.93	30.18	15.48	27.53	29.93	33.08	18.06	20.66
US Gulf Coast													
Light sw eet cracking	7.51	4.28	11.04	12.81	11.96	16.54	38.22	22.03	31.38	37.83	45.12	29.39	25.62
Medium sour cracking	11.95	6.61	15.79	17.87	18.71	25.08	47.39	31.78	39.42	45.88	56.49	38.88	34.26
Heavy sour coking	17.42	9.73	19.98	21.92	23.97	32.06	55.43	39.70	46.64	54.86	64.39	49.64	43.63
US Midwest													
Light sw eet cracking	10.76	3.74	12.33	14.95	11.14	13.95	40.42	21.26	30.57	38.14	52.10	33.64	33.17
Heavy sour coking	23.67	13.26	26.02	29.17	27.74	32.07	60.64	40.77	48.28	59.13	73.93	55.07	50.68
Singapore													
Light sw eet cracking	-1.24	0.20	3.10	3.13	5.56	7.94	18.69	11.19	16.27	15.50	24.03	12.04	11.75
Light sw eet cracking + Petchem	0.32	2.03	4.82	4.35	7.03	8.63	20.69	12.11	18.47	17.00	26.32	13.24	13.84
Medium sour cracking	5.16	1.80	3.92	4.22	5.27	9.85	23.35	13.13	20.50	22.26	27.10	9.91	8.98
Medium sour cracking + Petchem	6.70	3.61	5.61	5.42	6.72	10.53	25.33	14.04	22.67	23.74	29.37	11.09	11.04

Source: IEA, Argus Media Ltd prices.

 $Methodology\,notes\,are\,avaialble\,at\,https://www.iea.org/topics/oil-market-report#methodology$

Table 16 REFINED PRODUCT YIELDS BASED ON TOTAL INPUT (% VOLUME)¹

	Apr-22	May-22	Jun-22	Jun-21	Jun 22 vs Previous Month	Jun 22 vs Previous Year	Jun 22 vs 5 Year Average	5 Year Average
OECD Americas								
Naphtha	1.0	1.0	0.9	1.2	-0.1	-0.3	-0.5	1.3
Motor gasoline	43.1	43.2	43.9	44.5	0.7	-0.5	-0.6	44.5
Jet/kerosene	9.3	9.4	8.9	7.3	-0.4	1.6	0.9	8.1
Gasoil/diesel oil	27.9	28.1	28.5	27.8	0.4	0.7	0.0	28.5
Residual fuel oil	2.9	2.8	2.5	2.6	-0.3	-0.2	-0.6	3.1
Petroleum coke	4.3	4.3	4.4	4.4	0.1	0.0	0.0	4.4
Other products	13.7	14.3	14.3	14.7	0.0	-0.4	0.6	13.7
OECD Europe								
Naphtha	8.2	8.0	7.7	8.0	-0.3	-0.2	-0.4	8.1
Motor gasoline	21.2	21.3	20.8	20.5	-0.5	0.3	0.5	20.3
Jet/kerosene	7.5	8.6	8.8	5.7	0.2	3.1	1.4	7.3
Gasoil/diesel oil	40.4	39.0	39.0	42.0	0.0	-2.9	-1.4	40.4
Residual fuel oil	8.5	9.3	8.6	7.9	-0.7	0.7	-0.1	8.6
Petroleum coke	1.3	1.5	1.5	1.5	0.0	0.0	0.1	1.4
Other products	15.1	14.8	15.3	17.0	0.5	-1.8	-1.0	16.2
OECD Asia Oceania								
Naphtha	16.7	16.6	16.9	15.3	0.3	1.6	1.2	15.7
Motor gasoline	20.7	20.9	21.6	22.7	0.7	-1.1	-0.1	21.7
Jet/kerosene	12.5	12.3	11.5	11.6	-0.8	-0.1	-2.2	13.7
Gasoil/diesel oil	29.5	30.4	31.3	31.4	0.9	-0.2	0.3	30.9
Residual fuel oil	8.8	8.7	7.8	7.7	-0.8	0.1	1.0	6.8
Petroleum coke	0.5	0.2	0.5	0.4	0.3	0.0	0.0	0.5
Other products	12.2	12.4	12.5	13.5	0.0	-1.0	-0.4	12.9
OECD Total								
Naphtha	5.9	5.8	5.7	5.5	-0.2	0.2	-0.2	5.9
Motor gasoline	32.3	32.5	32.8	33.7	0.4	-0.9	-0.3	33.1
Jet/kerosene	9.3	9.6	9.3	7.5	-0.3	1.8	0.5	8.8
Gasoil/diesel oil	32.2	32.0	32.4	32.8	0.4	-0.4	-0.3	32.7
Residual fuel oil	5.7	5.9	5.3	5.1	-0.6	0.3	-0.1	5.4
Petroleum coke	2.7	2.7	2.8	2.9	0.1	-0.1	0.0	2.8
Other products	13.9	14.1	14.3	15.2	0.2	-0.9	0.0	14.3

1 Due to processing gains and losses, yields in % will not always add up to 100%

Table 17 WORLD BIOFUELS PRODUCTION (thousand barrels per day)									
	2019	2020	2021	4Q21	1Q22	2Q22	Jun 22	Jul 22	Aug 22
ETHANOL									
OECD Americas	1063	934	1010	1092	1058	1041	1078	1016	1016
United States	1029	906	979	1061	1023	1006	1043	980	980
Other*	34	28	30	30	35	35			
OECD Europe	97	93	103	110	103	112	111	107	107
France	21	17	18	22	24	28	30	14	14
Germany	12	11	12	15	19	22	21	7	7
Spain	9	8	10	10	7	7	7	13	13
United Kingdom	5	4	9	9	4	4	4	13	13
Other*	50	52	54	54	49	51			
OECD Asia Oceania	4	4	4	4	4	4	4	5	5
Australia	4	4	4	4	4	4	4	4	4
Other*	0	0	0	0	0	0			-
Total OECD Ethanol	1165	1031	1117	1205	1165	1158	1193	1127	1127
Total Non-OECD Ethanol	809	735	703	515	312	849	1044	1183	1165
Brazil	621	560	515	327	100	637	832	971	953
China*	67	69	76	76	79	79			
Argentina*	19	15	18	18	21	21			
Other	102	91	94	94	112	112	212	212	212
TOTAL ETHANOL	1974	1766	1820	1721	1477	2007	2237	2309	2291
BIODIESEL									
OECD Americas	151	159	168	197	185	213	233	242	242
United States	145	153	160	190	181	208	229	229	229
Other*	7	6	7	7	4	4			
OECD Europe	295	281	313	315	299	308	310	348	348
France	43	41	43	43	48	57	60	42	42
Germany	69	61	66	66	59	59	57	72	72
Italy*	18	28	30	31	22	32	0.		
Spain	42	30	39	38	33	31	31	48	48
Other	123	121	136	137	136	129	124	149	149
OECD Asia Oceania	15	12	12	8	10	14	18	11	11
Australia	0	0	0	0	0	0	0	0	0
Other*	15	12	12	8	10	14	-		-
Total OECD Biodiesel	461	452	493	521	494	535	561	601	601
Total Non-OECD Biodiesel	405	411	439	439	464	464	464	464	464
Brazil	102	411	439 116	439	101	105	107	105	105
Argentina*	42	27	36	36	42	42	107	105	100
Other*	261	274	287	289	321	317			
TOTAL BIODIESEL	866	863	932	960	958	999	1025	1065	1065
GLOBAL BIOFUELS	2839	2629	2752	2681	2435	3005	3261	3374	3357

* monthly data not available.

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