

New insights into global oil refineries

Thursday, 28 July



Agenda

• Welcome

 World Refinery Database: Joe Pezzino, Senior Advisor, S&P Global Commodity Insights
 ICE Connect Introduction: Joshua Starnes,

Director Business Development, ICE

Close and Q+A

ICe.

S&P Global Commodity Insights World Refinery Database

Joe Pezzino, Senior Advisor, S&P Global Commodity Insights



S&P Global Commodity Insights World Refinery Database (WRD)

The World Refinery Database provides an in-depth, historical and forward looking view of the global refining industry to help you understand evolving market dynamics and gain a competitive edge.

WRD is a useful tool for a variety of industry disciplines

≻Traders

- Strategic Planners
- Hedge Fund Analysts
- Senior Management
- Midstream and Downstream Analysts
- ➢Industry Researchers
- ➤Marketers



World Refinery Database Users Include :

- Integrated International Oil Companies
- National Oil/Gas Companies
- Independent Refiners
- Investment Banks
- Hedge Fund/Pension Fund
- Independent Oil & Gas Producers
- Trading Companies
- Pipeline Companies
- Midstream Operators
- Tech Service/Licensing Firms
- Government Agencies/Ministries

WRD Data Categories

Capacity (Primary Distillation and Downstream Units)
 Crude Runs by Crude Category
 Product Yields
 Outages (CDU,FCC, HCU, COK, Reformers)
 Margins
 Ownership

WRD Data Granularity

- ➢Outages daily
- ≻Margins daily
- ➤Capacity quarterly
- ➤Crude runs annual
- ➢ Product yields annual
- ≻Ownership quarterly



WRD Data Update Schedule

- ➢Outages updated daily
- ► Margins updated daily
- ➤Capacity updated quarterly
- ➤Crude runs and product yields updated annually
- >Ownership updated as it occurs

Capacity Data Detail

- ➤Capacity tracked over time from up to past 5 years of history to announced future projects up to 10 years forward
- Includes primary distillation capacity plus over 60 downstream units:

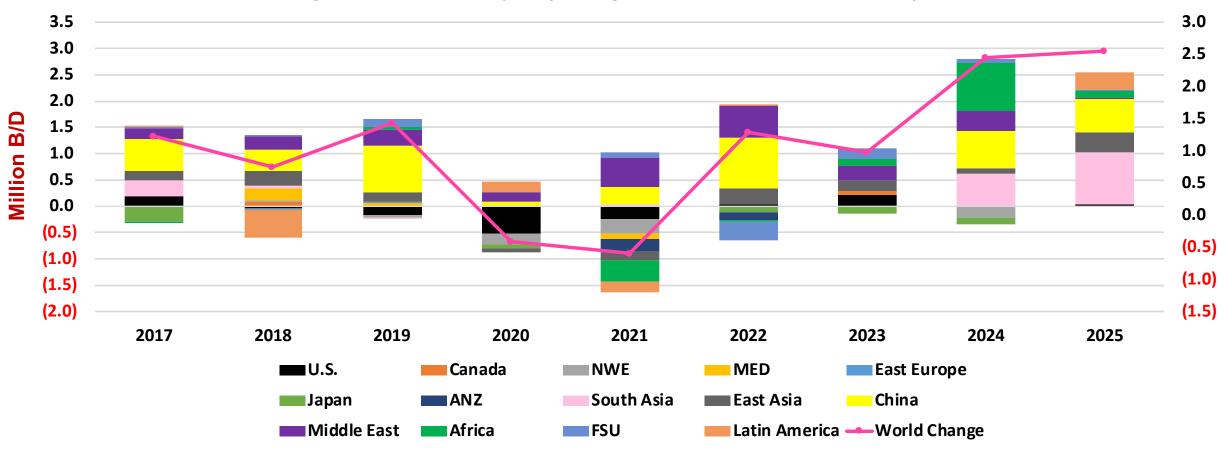
CDU, Condensate Splitter, VDU, FCC, HCU, COK, reforming, alkylation, isomerization, various hydroteating units, as well as specialty processes such as lubes, asphalt, aromatics, biofuels

Future projects are rated for likelihood: Firm, Probable, Less Likely
 Capacity available in different units:

thousand b/d, thousand tonnes per year, thousand tonnes per day

Capacity Analysis - 2020 and 2021 - a Turning Point for Refiners

Regional Distillation Capacity Changes, Firm & Probable (2Q 2022 Update)



S&P Global Commodity Insights

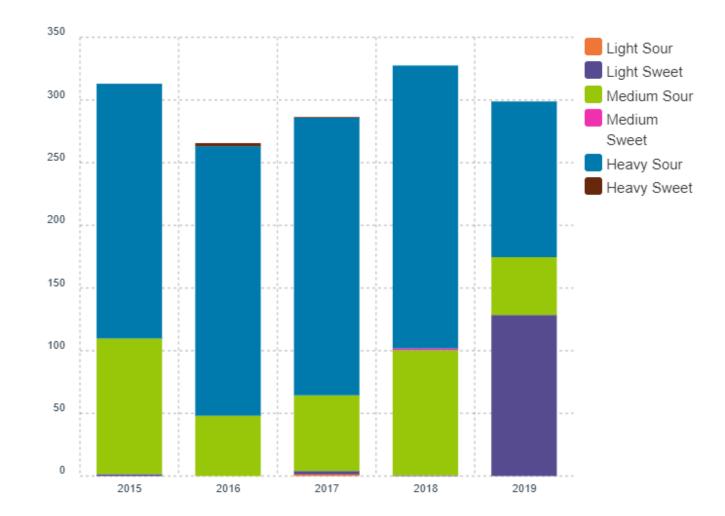
Crude Slate & Product Yield – Data Detail

Each refinery has historical annual data on crude runs by crude category: Lt Sweet, Lt Sour, Med Sweet, Med Sour, Hvy Sweet, Hvy Sour

Each refinery has historical annual data on product yields for major products:

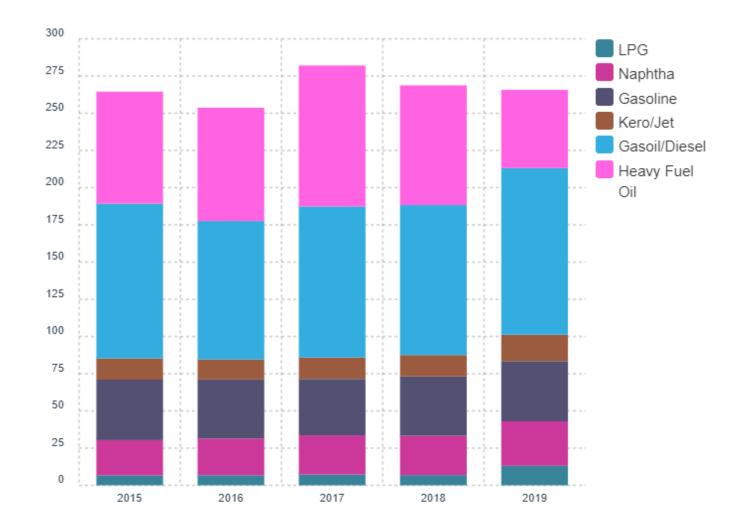
LPG, naphtha, gasoline, kero-jet, gasoil-diesel, heavy fuel oil

Refinery Analysis – change in crude slate for USG Refinery "A"



S&P Global Commodity Insights

Refinery Analysis – change in product yield for WEUR Refinery "B"



S&P Global Commodity Insights

Refinery Outages Reported Daily

➢ Refinery outage alerts are delivered in real time

> Daily outages are archived end of each day

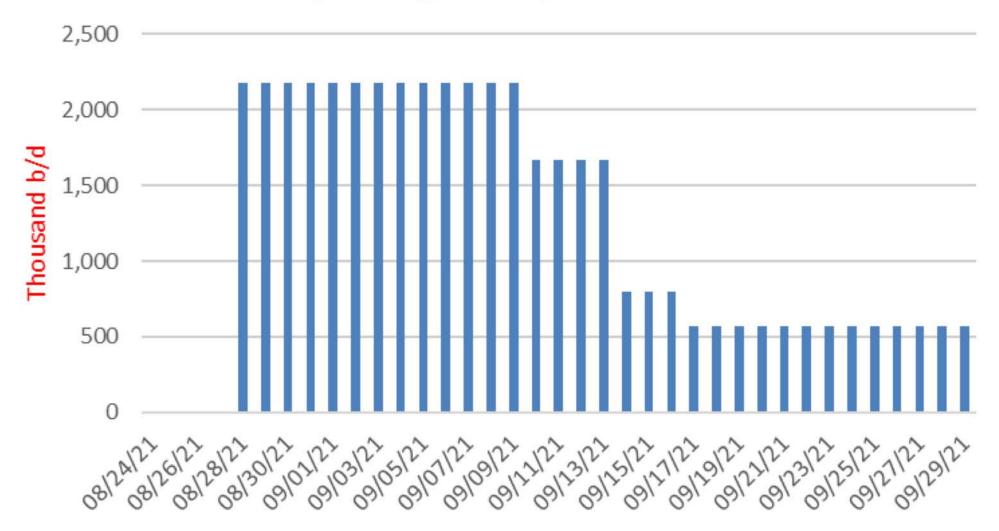
>Downtime includes CDU, FCC, HCU, COK, Reformers

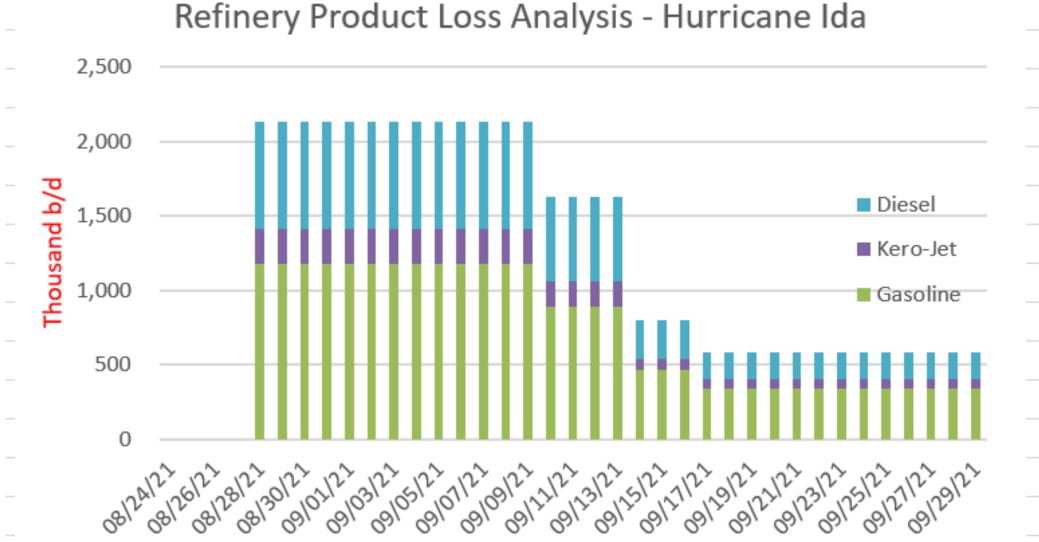
>Refinery downtime is available with start/end dates

➢Planned versus unplanned indicator

➢ Historical outages available going back 5 years

Refinery Outage Analysis - Hurricane Ida



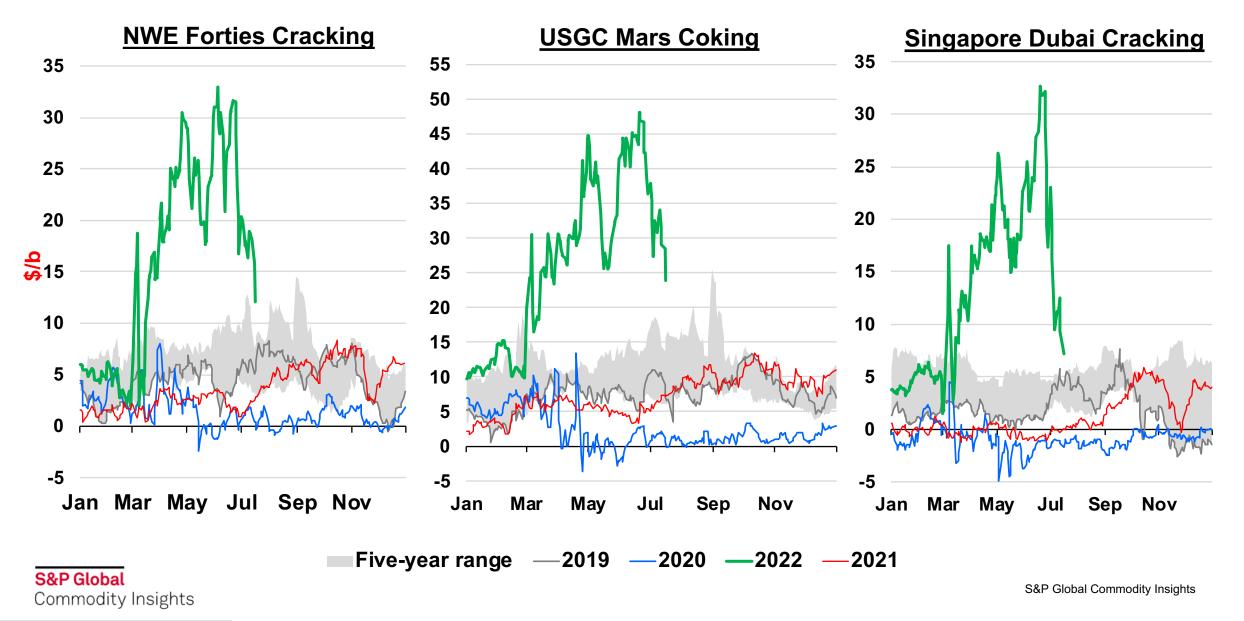


Refinery margins tracked at 8 different refining centers for different refinery configurations

Proforma variable operating margins using refinery LP models:

USG – cracking, coking NYH – cracking Chicago – cracking US Group 3 – cracking USWC – cracking, coking NWE – hydroskimming, cracking MED – hydroskimming, cracking SINGAPORE – topping, cracking

Refinery Margins Analysis – margins surge higher due to Russia-Ukraine Conflict



lice

ICE Connect

Oil Desktop

Joshua Starnes Director, Business Development

WRD Data by Refinery

Refineries - R	tegion Refineries - Country Refineries - United S	tates Re	fineries - Canad	a Refin	ieries - Lati	in America 🕞 🖬 🗐	REFUSAUSAPD3-P	FR +		% ⊡ ≡, 1
: I 🔳 📃	🏲 Symbol List 🔸 🗢 🔍 🛛 Custom 📲 Watch List 🔸	1					# 82 Chart REF	USAUSAPD3-PFR		+ Q < M
Symbol	Description			CurO	UnpC Un	p Un Un U U	Views • Studies	Selection Tool •	Fields Continu	ation VWAP
	PLATTS - Refinery - U.S United States - PADD I	3270.29					PI ATTS - Refine	ry - U.S United States - P	ADD III Default	40300.0
	PLATTS - Refinery - U.S United States - PADD II		10/01			48 0 0				10050
and the second second second second	PLATTS - Refinery - U.S United States - PADD III	40078								40250.0
	PLATTS - Refinery - U.S United States - PADD IV	2088.33								40200.0
	PLATTS - Refinery - U.S United States - PADD V		07/01 06/16	07/2						40150.0
	PLATTS - Refinery - United States - Abilene - Pride Re.		10/11							40100.0
	. PLATTS - Refinery - United States - Albany - Cirillo Br		10/11							40078.0
	PLATTS - Refinery - United States - Alliance - Phillips		05/24							40050.0
	PLATTS - Refinery - United States - Alma - Valero		10/11							40000.0
	PLATTS - Refinery - United States - Amarillo - Texaco		07/25							
	PLATTS - Refinery - United States - Anacortes - Air Li		12/11							39950.
	. PLATTS - Refinery - United States - Anacortes - Mara.									39900.
	PLATTS - Refinery - United States - Anacortes - Holly		10/11							39850.
	PLATTS - Refinery - United States - Anchorage - Con		10/11							
	PLATTS - Refinery - United States - Ardmore - Valero		03/24							39800.
	PLATTS - Refinery - United States - Arkansas City - T		10/11							39750.0
	PLATTS - Refinery - United States - Artesia - Holly-Fr		01/05							39700.0
	. PLATTS - Refinery - United States - Atmore - Goodwa.		08/07							
	PLATTS - Refinery - United States - Augusta - Coastal.		10/11							39650.0
	. PLATTS - Refinery - United States - Baker - Quantum .									39600.
	PLATTS - Refinery - United States - Bakersfield - Glo		03/30							20550
	PLATTS - Refinery - United States - Bakersfield - Che		10/11							39550.0
	. PLATTS - Refinery - United States - Bakersfield - Gibs.		10/11							39500.0
	PLATTS - Refinery - United States - Bakersfield - Ker		12/22							39450.
	PLATTS - Refinery - United States - Bakersfield - Sab		10/11							
	PLATTS - Refinery - United States - Bakersfield - San		10/11							39400.
	. PLATTS - Refinery - United States - Bakersfield - Sunl.		10/11				Jul Oct 122 An	r Jul Oct '23 Apr Ju	1 Oct 24 M	ay Aug Monthly
	PLATTS - Refinery - United States - Bakersfield - Wes. <u>PLATTS - Refinery - United States - Baltimore - Chevr</u>		10/11				Comparison of the second detailed of the seco	APD3-PFR Date: 09/01/21		

WRD Data by Unit

Laune	cher <u>F</u> ile	Edit Vie	v <u>T</u> ools <u>H</u> elp		Connect		Q Customize C	∑ _ @ X
Platte Ford	damental Data (P	lefinaries 🛪	Refinery Data Refinery U	nits Refinery Margins +				
Refinery Ur	nits - United Stat	es Refinery	Units - Northwest Europe	Refinery Units - China Refinery Units 👻 🕃 🗮 🗙	REFBNTEXMVDU-PFR +			% G* ≅ ×
			Custom - Watch List -		# 82 Chart REFENTEXMVDU-PFR	+ Q < W	🕶 🔋 🗿 🕨 🛛 Add 🔻 Compare	Chane 4
				rOutEnd UnpOutMbcd UnpOutStar UnpOutEnd	Views + Studies * Selection Tool + + Fields			
		Sabura sa			Views + Studies		More + Advanced + L	
 Augusta [Bakersfie 								
Baltimore					PLATTS - Refinery - United States - Beaumont - Exxo	nMobil - VDU Default		153.00
► Baton Ros								157 50
Bayport								152.3257
Baytown								152.00
Beaumon			CHARLEN AND COMPANY					151.50
The second s	PLATTS - R		10/11/05					151.00
	PLATTS - R PLATTS - R	0	10/11/05					A STATES
	PLATTS - R		10/11/05					150.50
	PLATTS - R	0	10/11/05					150.00
	PLATTS - R		10/11/05					149.50
REFBNTCP	PLATTS - R		10/11/05					149.00
REFBNTCP	PLATTS - R		10/11/05					149,00
REFBNTCP	PLATTS - R		10/11/05					148.50
	PLATTS - R		03/25/11					140.00
	PLATTS - R	0	03/25/11					148.00
	PLATTS - R	0	10/11/05					147.50
	PLATTS - R PLATTS - R	24.5 45.46	10/11/05 03/23/09					1
	PLATTS - R	45.46	03/23/09					147.00
CONTRACTOR OF THE PARTY OF	PLATTS - R	112	08/15/06					146.50
a produce and a second	PLATTS - R	60.5	03/23/09					148.00
	PLATTS - R	54,5	10/11/05					
REFBNTEX	PLATTS - R	54.5	10/11/05					145.50
	PLATTS - R		09/24/15					145.00
and the second s	PLATTS - R.	2,71	03/23/09					144.50
	PLATTS - R	465	08/15/06					144.00
PRINTING TO A REPORT OF	PLATTS - R PLATTS - R	138.55	03/23/09 12/19/18					144.00
	PLATTS - R PLATTS - R	208.04	06/29/20					143.50
CONTRACTOR OF THE OWNER OWNE	PLATTS - R	1.9	10/11/05					
E REAL PROPERTY AND	PLATTS - R	1.9	10/11/05					
and the second second second	PLATTS - R				Jul '13 Jul '14 Jul '15 Jul '16 Jul '17 Jul		0 Jul '21 Jul '22 Jul '23	Weekly
DEEDNITOD	DIATTC D				Symbol REFBNTEXMVDU-PFR Date: 09/21/12 O: H:	L: C; Vol:		
ICE NYSE	N Page and Wo	kbook Library						22:34:46

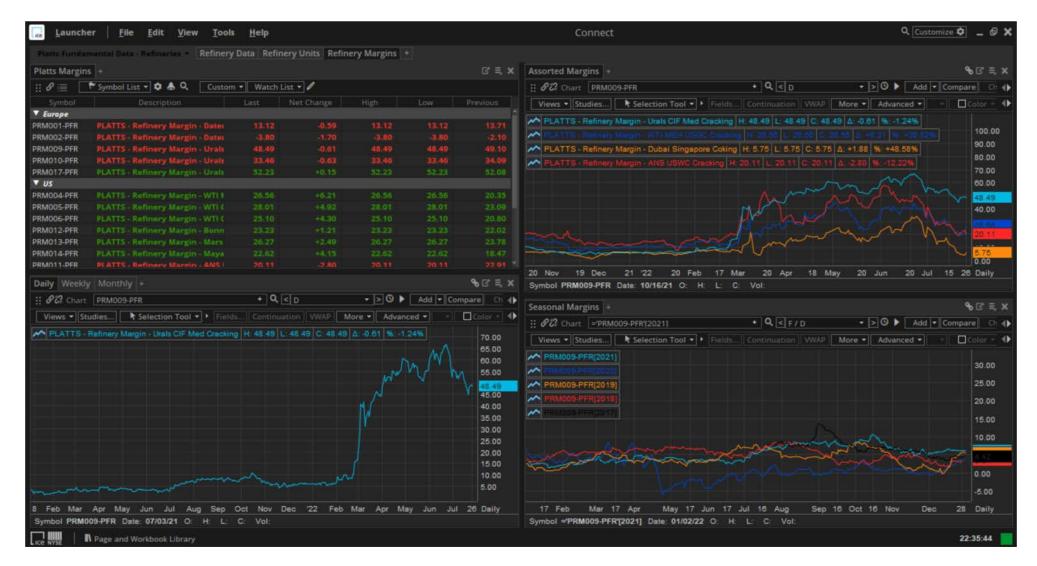
WRD Product Yield Data

Plans Fundamental Pata - Refineries + Refinery Data Refinery Units Refinery Margins +	
tefineries - Region Refineries - Country Refineries - United States Refineries - Canada Refineries - La	Refineries - Northwei + G =, X REFUSAUSAPD3-PFR + % G =, X
🖓 🚊 🕈 Symbol List 🕈 🕏 🕭 🔍 Custom 📲 Watch List 🕈 🖊	II 82 Chart REFUSAUSAPD3-PFR + Q < M + 24
Symbol Description CapMod CapMod CurOu. C	u., UnpC., Unp., Unp., U., U., Views * Studies * Selection Tool * Fields Continuation WWAP More *
EFUSAUSAPD1 PLATTS - Refinery - U.S United States - PADD I 3270.29 10/01/22	
EFUSAUSAPD2 PLATTS - Refinery - U.S United States - PADD II 15633.28 10/01/25	48.28 0 0 40300.00
EFUSAUSAPD3 PLATTS - Refinery - U.S United States - Heading Customization	States - PADD III Default 40300.00
EFUSAUSAPD4 PLATTS - Refinery - U.S United States -	40250.00
EFUSAUSAPDS PLATTS - Refinery - U.S United States - Heading: Custom 🔹 🗘	
EFABLPRD-PFR PLATTS - Refinery - United States - Abiler Unused Fields	II Selected Fields 40200.00
EFANYCBO-PFR PLATTS - Refinery - United States - Alban Stores Chemical Products	Auto Symbol. Attack With 40150.00
EFACEP66-PFR PLATTS - Refinery - United States - Allian Stores Crude Oil	Description
EFAMAVRO-PFR PLATTS - Refinery - United States - Alma Distores LNG	Capacity Mbcd
EFALOTEX-PFR PLATTS - Refinery - United States - Amari Distores NGL	Add All Capacity Modified Date 40078.01
EFAESADE-PFR PLATTS - Refinery - United States - Anaco Stores Petroleum Products	Current Outage Date Start 40050.00
EFAESMUM-PFR PLATTS - Refinery - United States - Anaco 🛛 🕒 Tank Range from Bbls	Remove All Current Outage Date End 40000.00
EFAESSSA-PFR PLATTS - Refinery - United States - Anaco Dank Range from M3	Unplanned Current Outage Ca
EFAGECPS-PFR PLATTS - Refinery - United States - Ancho Tank Range to Bbls	Unplanned Current Outage Di 39950.00
EFADRVRO-PFR PLATTS - Refinery - United States - Ardma D Tank Range to M3	Unplanned Current Outage Di
EFATYTOT-PFR PLATTS - Refinery - United States - Arkan	Unplanned Outage Capacity M 39900.00
Erwanek-Prk PLATIS - Retinery - United States - Artest	Unplanned Outage Date End 39850.00
EFATEGDY-PFR PLATTS - Refinery - United States - Atmor	Unplanned Outage Date Start
PLATTS - Relinery - United states - Augus	39800.00
EFBERQGY-PFR PLATTS - Relinery - United States - Baker	
EFBKDAON-PFR PLATTS - Refinery - United States - Baker	39750.00
EFBKDCHN-PFR PLATTS - Refinery - United States - Baker De Yield Total	39700.00
EFBKDGOR-PFR PLATTS - Refinery - United States - Baker 🛛 Prield on Crude Condensate Gasoil Diesel	
EFBKDKIL-PFR PLATTS - Refinery - United States - Baker Divide Condensate Gasoline	39650.00
EFBKDSBR-PFR PLATTS - Refinery - United States - Baker 🛛 Yield on Crude Condensate Heavy Fuel Oi	
EFBKDSJR-PFR PLATTS - Refinery - United States - Baker Pield on Crude Condensate Kero Jet	* * * * * * * * * * * * * * * * * * *
EFBKDSND-PFR PLATTS - Refinery - United States - Baken	OK Cancel 39550.00
EFBKDWIL-PFR PLATTS - Refinery - United States - Baker EFBRECHN-PFR PLATTS - Refinery - United States - Baltinese - Supervor	
EFBRECHN-PFR PLATTS - Refinery - United States - Baltimore - Crewron O Formos EFBGEEXM-PFR PLATTS - Refinery - United States - Baton Rouge - ExxonMobil 2384.31 12/17/14	39500.00
EFBGEEXM-PFR PLATTS - Refinery - United States - Baton Rouge - Ecconmobil 2364.31 12/1//14 EFBRTADE-PFR PLATTS - Refinery - United States - Bayport - Air Liquide 100 11/14/06	
EFBY2ATS-PFR PLATTS - Refinery - United States - Baybort - Air Liquide 100 11/14/06 EFBY2ATS-PFR PLATTS - Refinery - United States - Bayborn (2) - Air Products 125 12/22/15	39450.00
EFBYTANS-PFR PLATTS - Refinery - United States - Baytown (2) - Air Products 125 12722715 EFBWNATS-PFR PLATTS - Refinery - United States - Baytown - Air Products 82 11/09/06	39400.00
EFBWNATS-PFR PLATTS - Refinery - United States - Baytown - Air Produccs 62 11709706 EFBWNEXM-PFR PLATTS - Refinery - United States - Baytown - ExxonMobil 2734.78 01/05/21	
EFBNTCPS-PFR PLATTS - Refinery - United States - Beaumont - ConocoPhillips 0 10/11/05	Jul Oct '22 Apr Jul Oct '23 Apr Jul Oct '24 May Aug Monthly
EFBNTEXM-PFR PLATTS - Refinery - United States - Beaumont - ExxonMobil 2217.79 06/29/20	 Symbol REFUSAUSAP03-PFR Date: 09/01/21 O: 37440.03 L: 37440.03 L: 37440.03 C:
Rege and Workbook Library	22:37:52

WRD Crude Runs Data

🛃 Launcher <u>F</u> ile Edit <u>V</u> iew Iools <u>H</u> elp		Connect		🤇 Customize 🗘 🔔 🖉 🕽
Platts Fundamental Data - Refineries - Refinery Data Refinery	Units Refinery Margins +			
Refineries - Region Refineries - Country Refineries - United State	Refineries - Canada Refineries - Latin Americ	ca Refineries - Northwes - I 프 X REFUSAUSA	PD3-PFR +	%- C* ≕, ×
🗄 🖉 🚞 🕈 Symbol List 🔹 🗘 🕭 🔍 🛛 Custom 👻 Watch List	1	:: 88 Cha	rt. REFUSAUSAPD3-PFR	+ Q < M + 2 4
Symbol Description	CapMbcd CapMod CurOu CurOu Un	pCu. UnpC. Unp., Unp., U., U., Views -	Studies	ds Continuation VWAP More -
REFUSAUSAPD1 PLATTS - Refinery - U.S United States - PADD I	3270.29 10/01/22			
REFUSAUSAPD2 PLATTS - Refinery - U.S United States - PADD II	15633.28 10/01/25	48.28 0 0	States - PADD II	11 Default 40300.00
REFUSAUSAPD3 PLATTS - Refinery - U.S United States - Heading Cu			×	([Coloring of]
REFUSAUSAPD4 PLATTS - Refinery - U.S United States -				40250.00
REFUSAUSAPDS PLATTS - Refinery - U.S United States - Heading: C REFABLPRD-PFR PLATTS - Refinery - United States - Abiler Unused Fiel	istom 🔹 🗘			40200.00
REFAMINGRO DER DI ATTE Referent Halted Extens Allege		E Selected Fields		
	Next Outage Notes	• Ann Symbol		40150.00
and the second states a	Not Likely Capacity Modified Date	Description		40100.00
	Outage Notes Outage Type	Capacity Mbcd Add All Capacity Modified Date		40078.01
	Outage Type Outage Unit Count	Add All Capacity Modified Date Current Outage Date S		40050.00
	Owner Name	Remove All Current Outage Date 5		
	Owner Percent Share	Unplanned Current Ou		40000.00
REFAGECPS-PFR PLATTS - Refinery - United States - Ancho	Planning Status	Unplanned Current Ou		39950.00
REFADRVRO-PFR PLATTS - Refinery - United States - Ardmt	Refinery Configuration	Unplanned Current Ou		
The start whether the start we shall be started whether the started whet	Refinery Run Date End	Unplanned Outage Cap		39900.00
Renalation Platts Relinely United States Altest	Refinery Run Date Start	Unplanned Outage Dat	te End	
	Refinery Status Refinery Unit ID	Unplanned Outage Dat	te Start	39850.00
REFAUACRM-PFR PLATTS - Refinery - United States - Augus	Refinery Unit Name			39800.00
REFBERQGY-PFR PLATTS - Refinery - United States - Baker	Region			
REFBKDAON-PFR PLATTS - Refinery - United States - Baker	State			39750.00
REFBKDCHN-PFR PLATTS - Refinery - United States - Baker	Stores Chemical Products			39700.00
	Stores Crude Oil			0010000
	Stores LNG			39650.00
	Stores NGL Stores Petroleum Products			
REFBROSND-PFR PLATTS - Refinery - United States - Baker	stores Petroleum Products			39600.00
REFBKDWIL-PFR PLATTS Refinery United States Baker			OK Cancel	39550.00
REFBRECHN-PFR PLATTS - Refinery - United States - Baltimore - Streeman	U 10/11/02			
REFBGEEXM-PFR PLATTS - Refinery - United States - Baton Rouge - Exxo				39500.00
REFBRTADE-PFR PLATTS - Refinery - United States - Bayport - Air Liquid				39450.00
REFBY2ATS-PFR PLATTS - Refinery - United States - Baytown (2) - Air Pr				30400.00
REFBWNATS-PFR PLATTS - Refinery - United States - Baytown - Air Produ				39400.00
REFBWNEXM-PFR PLATTS - Refinery - United States - Baytown - ExxonMo	bil 2734.78 01/05/21			
REFBNTCPS-PFR PLATTS - Refinery - United States - Beaumont - Conocc	Phillips 0 10/11/05	Jul Oct	'22 Apr Jul Oct '23 Apr J	lul Oct '24 May Aug Monthly
REFENTEXM-PFR PLATTS - Refinery - United States - Beaumont - Exxonit	lobil 2217.79 06/29/20	- Symbol REF	USAUSAPD3-PFR Date: 09/01/21 0: 3	37440.03 H: 37440.03 L: 37440.03 C:
R Page and Workbook Library				22:38:52

WRD Margin Data



WRD Distillation Capacity Changes

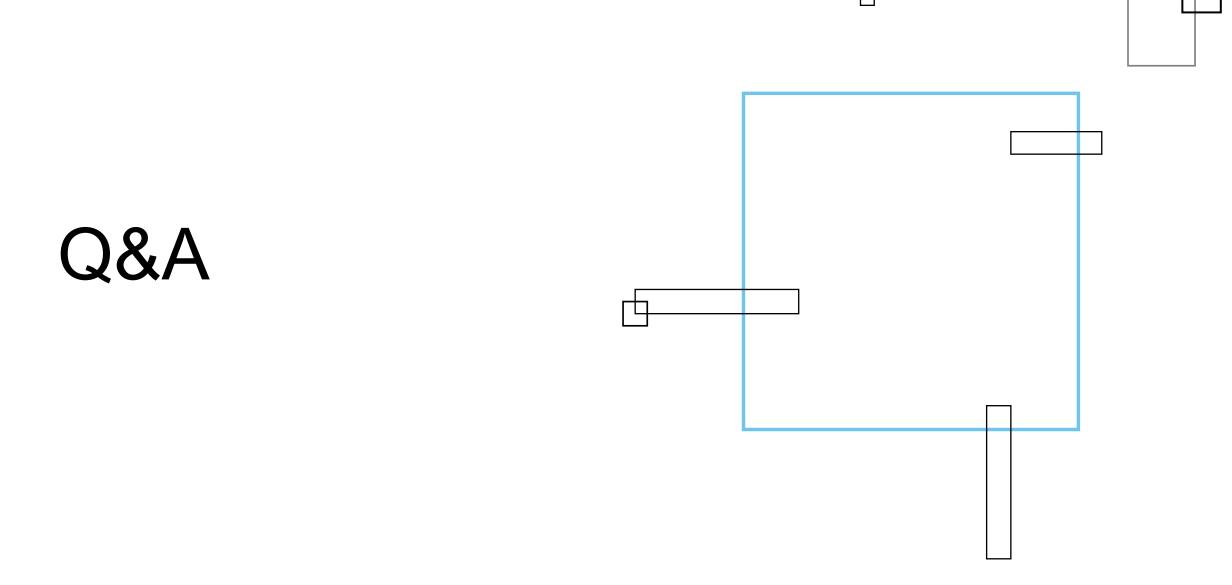
atta Fundamental Data - Refinesias - Refinery Data Refinery Unit	Definers Magnine 4	
Ineries - Region Refineries - Country Refineries - 1 + 0 = X		%-c*≡
		- 0 G =
bol Dsc Cap Cap CurO CurO UnpC UnpC Unpc A PLATTS 1124 07/0 12/0 12/3 0 03/0 09/3	Views - Studies Studies Studies Studies Studies Studies	
A PLATTS 797.47 07/0	300.00 155000.00 PLATTS - Refinery - U.S. Default	76400.00
C PLATTS 7616.1 10/0	250.00 M PLATTS - Refinely - Africe Default	76200.00
C PLATTS 7133 10/0 06/1 09/1 0 E PLATTS 3381 04/0 07/0 08/0 0	200.00 145000.00 PLATTS - Refinery - China Default 200.00 140000.00 PLATTS - Refinery - East Asia Default	76000.00 2900.0
	150.00 135000.00 PLATTS - Refinery - East Europe Default	75800.00 2800.0
	100.00 130000.00 10.4 115 - Before: - 1511 (Select)	75600.00
PLATTS 1418 01/0 05/2 08/1 0 L PLATTS 2541 10/0 0 06/2 09/3	050.00 125000.00 PLATTS - Refinery - Japan Default	75400.00
PLATTS 2509 04/0 05/0 07/2 0 01/0 12/3	000.00 120000.00 REATTS - Beforey - Latin America Default	75200.00
PLATTS 4509 10/0 06/2 08/2 0		75000.00
PLATTS 2698 04/0 06/0 08/0 0	900.00 105000.00 MPLATTS - Refiney - Middle East Default	74800.00
U PLATTS 7216 07/0 06/1 07/2 0	850.00 100000.00 M PLATTS - Refinery - NWE Default	74600.00
	800.00 95000.00 M PLATTS - Refinery - South Asia Default	74400.00 2200.0
	750.00 90000.00 A PLATTS - Refinery - U.S. Default	2100.0
		74200.00 2000.0
	850.00 PLATTS - Refinery - Canada Default	74000.00 1900.0
	2162.67	73800.00 1800.0
	550.00 85000.00	73600.00 1700.0
	500.00 60000.00	73400.00 1600.0
	450.00 55000.00	73200.00 1500.0
	400.00 50000.00	73000.00 1400.0
	40000.00	72800.00 1300.0
	300.00	70000
	250.00 29545.18	
		1.003
	150.00 20000.00	72162.57 1000.0
	100.00 14189.77 5524.03 5524.03	72000.00 900.00
		71800.00
	Oct '21 Apr Jul Oct '22 Apr Jul Oct '23 Apr Jul Oct '24 Apr Jul Oct '25 Apr Jul Oct wmbol REFUSA-PFR Date: 12/01/20 O: 71525.68 H: 71525.68 L: 71525.68 C: 71525.68 Vol:	'26 Month

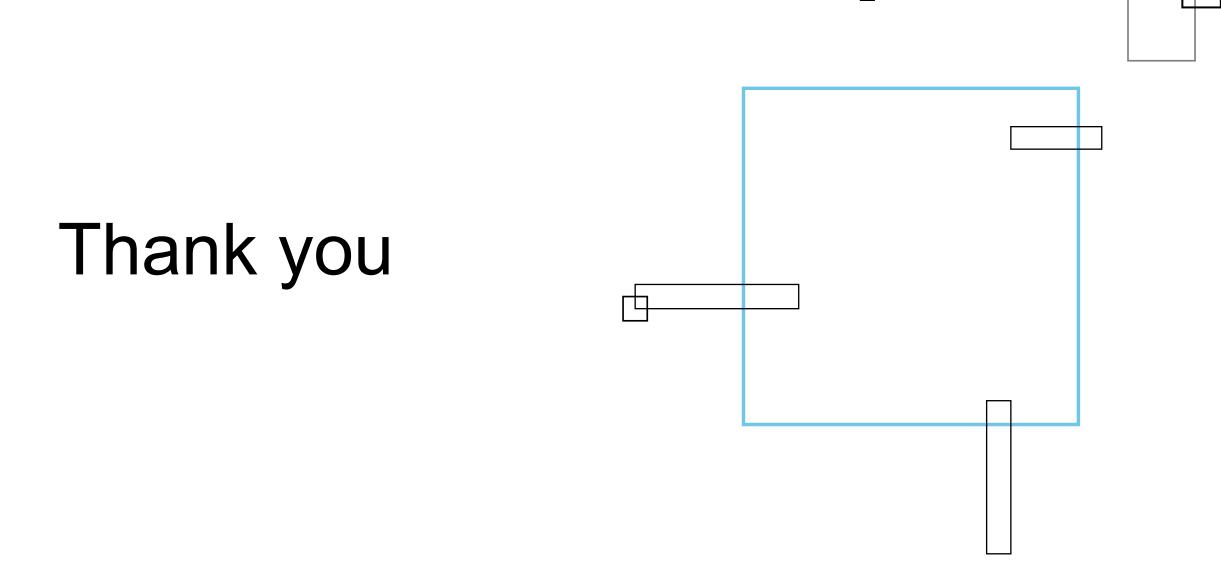
WRD Change in Crude Slate

Launcher	<u>File Edit Vie</u>	w <u>T</u> ools <u>H</u> el	P				Connect		Q Customiz	e 🌣 🗕 6
fatte Funitame	ntal Data - Refimeries =	Refinery Data	Refinery Units Ref	nery Margins +						
ion Refineries	- Country Refineries	- United States R	efineries - Canada	Refineries - Latin A	America Refineries		e Ref + [3] =, 🗙	REFUSAUSAPD3-PFR +		% 3" ≡
: 🖉 🔳 🛛 🏲 🤄	Symbol List 🔹 🏚 🍳	Custom 🕶 🛛 Wa	atch List 💌 🥖					H & Chart REFUSAUSAPD3-PFR	+ Q, < M	÷
Symbol	Description	HeaSouMbcd	HeaSweMbcd	LigSouMbod	LigSweMbcd	MedSouMbcd	MedSweMbcd	Views + Studies * Selection Tool + Field	ds Continuation VWA	P More -
EFUSAUSAPD1-PFI	R PLATTS - Refinery	59.38		20.5	332,19	135.65	55.27	PLATTS - Refinery - U.S United States - PADD I	11 11-0	
FUSAUSAPD2-PF	R PLATTS - Refinery	1655.31		105.6	1092.81	283,81	316.38	PLAT IS - Retinery - U.S United States - PADUT	II Ligsweinbod: 4389.2	495(
FUSAUSAPD3-PFI	R PLATTS - Refinery	1380.44	16.68	79,12	4389.2	1738.78	63.75			
FUSAUSAPD4-PFI	R PLATTS - Refinery	196.99	3.01	3.86	179.53	46.06	130.18			490
FUSAUSAPD5-PFI	R PLATTS Refinery	514.43	20.26	91.98	351.86	827.95	186.21			485
FABLPRD-PFR	PLATTS - Refinery						0			480
FANYCBO-PFR	PLATTS - Refinery						0			
FACEP66-PFR	PLATTS - Refinery	2.12	0.61		52.06	57	1.21		واعتدادته المتقادات	475
EFAMAVRO-PFR	PLATTS - Refinery						0	Date 11/01/96		4700
FALOTEX-PFR	PLATTS - Refinery						O	REFUSAUSAPD3-PFR		465
FAESADE-PFR	PLATTS - Refinery							Light Sweet Input Capacity Mbcd		460
FAESMUM-PFR	PLATTS - Refinery	8.54		8.41	69.95	1.69	4.41	VOL (REFUSAUSAPD3-PFR)		460
FAESSSA-PFR	PLATTS - Refinery			35.91	49.76	8.07	11.42			455
FAGECPS-PFR	PLATTS - Refinery					11,1				450
FADRVRO-PFR	PLATTS - Refinery				54.55	26.08	0			
FATYTOT-PFR	PLATTS - Refinery									445
FAIAHER-PFR	PLATTS - Refinery				28.67	71.79	0			438
EFATEGDY-PFR	PLATTS - Refinery				2.59		0			4350
FAUACRM-PFR	PLATTS - Refinery									430
FBERQGY-PFR	PLATTS - Refinery									430
FBKDAON-PFR	PLATTS Refinery						0			425
FBKDCHN-PFR	PLATTS - Refinery						0			420
FBKDGOR-PFR	PLATTS - Refinery									
FBKDKIL-PFR	PLATTS - Refinery					10.31	0			415
EFBKDSBR-PFR	PLATTS - Refinery								والمركا والمتحد المتحد المتحد	410
FBKDSJR-PFR	PLATTS - Refinery	0.02				8.26	0	VOL (REFUSAUSAPD3-PFR)=N/A		
EF8KDSND-PFR	PLATTS - Refinery									100
F8KDWIL-PFR	PLATTS - Refinery									
FBRECHN-PFR	PLATTS - Refinery									80
FBGEEXM-PFR	PLATTS - Refinery	38.72		78,88	126.06	227.26	0			60
FBRTADE-PFR	PLATTS - Refinery									40
FBYZATS-PFR	PLATTS - Refinery						Ø			20
FBWNATS-PFR	PLATTS - Refinery						0			
FBWNEXM-PFR	PLATTS - Refinery	54.63			427.9	15.24	0			0
FBNTCPS-PFR	PLATTS - Refinery							'94 '96 '98 '00 '02 '04 '06 '08 '10 '12 '1		"26 Mor
FBNTEXM-PFR	PLATTS - Refinery	68.25			214.67	4.08	0 +	Symbol REFUSAUSAPD3-PFR Date: 11/01/96 O:	H: L: C: Vol:	

WRD Change in Product Yield

Launcher	<u>F</u> ile	Edit	View Iools Help					Cor	nnect	Q Custom	112e 🕶 🗕 🤅
latte Fundamen	cal Data -	Refiners	Refinery Data Refinery Unit	s Refinery N	targins +						
ion Refineries	- Country	Refine	ries - United States Refineries - Ca	nada Refine	ries - Latin Amer	ica Refiner		Europe Re	f 🕶 🖾 🗮 🗙	REFUSAUSAPD3-PFR +	% ⊠ ≡
8 🗏 🏲 Sj	ymbol List	• • 4	Q Custom • Watch List •								
			Description			YHEO		Yield LPG		Views • Studies • Selection Tool • • Fields Continuation VW	AP More -
FUSAUSAPD1-PFR	PLATTS -	Refinery	U.S United States - PADD I	276.47	473.88	30.37	83.23	12.07	6.02		
FUSAUSAPD2-PFR	PLATTS -	Refinery	- U.S United States - PADD II	1093.96	2088.84	55.4	265.87	47.21	28.14	PLATTS - Refinery - U.S United States - PADD III YGasoil: 2840.36	2940
FUSAUSAPD3-PFR	PLATTS -	Refinery	U.S United States - PADD III	2840,36	4119.19	206.39	891.88	221.6	203,94		293
FUSAUSAPD4-PFR	PLATTS -	Refinery	U.S United States - PADD IV	209,31	314.91	11.66	33.73	-0.25	0		
FUSAUSAPDS-PFR	PLATTS -	Refinery	- U.S United States - PADD V	538,88	1254.27	111.11	467.64	-8.48	3.33		2930
FABLPRD PFR	PLATTS	Refinery	- United States - Abilene - Pride Re						0		292
FANYCBO-PFR	PLATTS -	Refinery	- United States - Albany - Cirillo Br							Internet and the second of the second s	292
FACEP66-PFR	PLATTS -	Refinery	United States - Alliance - Phillips	69.53	150.49	2.44	28.02	-5.97	1.16		291
FAMAVRO-PFR	PLATTS -	Refinery	- United States - Alma - Valero								291
FALOTEX-PFR	PLATTS -	Refinery	- United States - Amarillo - Texaco						0		290
FAESADE-PFR	PLATTS -	Refinery	- United States - Anacortes - Air Li						0		290
FAESMUM-PFR	PLATTS -	Refinery	United States - Anacortes - Mara	21.94	64,42	1.88	22.24	-5.35	0.83		
AESSSA-PFR	PLATTS -	Refinery	United States - Anacortes - Holly	24.05	78.58	1.62	22.81	-2.38	0		289
AGECPS-PFR	PLATTS-	Refinery	United States - Anchorage - Cono	2.46	2.95	5.34	1.19	0.18	0.11		289
FADRVRO-PFR	PLATTS -	Refinery	- United States - Ardmore - Valero	29.44	54.09	0.34	3,49	-1.68	0	The second	288
FATYTOT-PFR	PLATTS -	Refinery	United States - Arkansas City - To						0		288
FAIAHER-PFR	PLATTS -	Refinery	- United States - Artesia - Holly-Fro	47	61.37	2.62		-5.55	0		287
FATEGDY-PFR	PLATTS -	Refinery	United States - Atmore - Goodwa	0.79	0.12	0.19	0.12		0.48		287
FAUACRM-PFR	PLATTS -	Refinery	United States - Augusta - Coastal						0		286
FBERQGY-PFR	PLATTS -	Refinery	- United States - Baker - Quantum								
FBKDAON-PFR	PLATTS	Refinery	United States - Bakersfield - Glob						0		286
FBKDCHN-PFR	PLATTS -	Refinery	United States - Bakersfield - Chev								285
BKDGOR-PFR	PLATTS -	Refinery	United States - Bakersfield - Gibs						0		285
FBKDKIL-PFR			- United States - Bakersfield - Kern	1,89	2.19	3,4	1.57	-0,13			284
FBKDSBR-PFR	PLATTS -	Refinery	- United States - Bakersfield - Sabr								284
FBKDSJR-PFR			United States - Bakersfield - San J	1.4	1.58	2.44	1.22	-0.26			DALLA N
FBKDSND-PFR	PLATTS -	Refinery	United States - Bakersfield - Sunl						0	VOL (REFUSAUSAPD3-PFR)=WA	
FBKDWIL-PFR	PLATTS -	Refinery	United States - Bakersfield - Wes						0		100
FBRECHN-PFR			United States - Baltimore - Chevr						0		80
FBGEEXM-PFR			- United States - Baton Rouge - Exx	153.05	288.15	4.29	55.25	8.9	0.02		60
FBRTADE-PFR			- United States - Bayport - Air Liqui	0		0			0		40
FBY2ATS-PFR			- United States - Baytown (2) - Air	ō		0			0		
FBWNATS-PFR			- United States - Baytown - Air Pro						0		20
FBWNEXM-PFR			- United States - Baytown - Exxon	166.92		6.55	44.22	22.97	12.33		0
FBNTCPS-PFR			United States - Beaumont - Cono	0		0		0	0	17 Jul 18 Jul 19 Jul 20 Jul 21 Jul 22 Jul 23 Jul	24 Wee
FBNTEXM-PFR			- United States - Beaumont - Exxo	86.27		2.62	27.81	15,18	10.03 -	Symbol REFUSAUSAPD3-PFR Date: 07/22/16 O: H: L: C: Vol:	





Limitations

This presentation contains information that is proprietary property of Intercontinental Exchange, Inc., its affiliates, and/or S&P Global Inc.or its affiliates, is not to be published, reproduced, copied, disclosed or used without the express written consent of Intercontinental Exchange, Inc. and/or its affiliates.

This presentation is provided for informational purposes only. The information contained herein is subject to change and does not constitute any form of warranty, representation, or undertaking. Nothing herein should in any way be deemed to alter the legal rights and obligations contained in agreements between Intercontinental Exchange, Inc. and/or any of its affiliates and their respective clients relating to any of the products or services described herein. Nothing herein is intended to constitute legal, tax, accounting, investment or other professional advice.

Intercontinental Exchange, Inc. and its affiliates, makes no warranties whatsoever, either express or implied, as to merchantability, fitness for a particular purpose, or any other matter. Without limiting the foregoing, Intercontinental Exchange, Inc. and its affiliates makes no representation or warranty that any data or information (including but not limited to evaluations) supplied to or by it are complete or free from errors, omissions, or defects.

Trademarks of Intercontinental Exchange, Inc. and/or its affiliates include: Intercontinental Exchange, ICE, ICE block design, NYSE, ICE Data Services, ICE Data and New York Stock Exchange. Information regarding additional trademarks and intellectual property rights of Intercontinental Exchange, Inc. and/or its affiliates is located at www.intercontinentalexchange.com/terms-of-use. Other products, services, or company names mentioned herein are the property of, and may be the service mark or trademark of, their respective owners.

© 2022 Intercontinental Exchange, Inc.