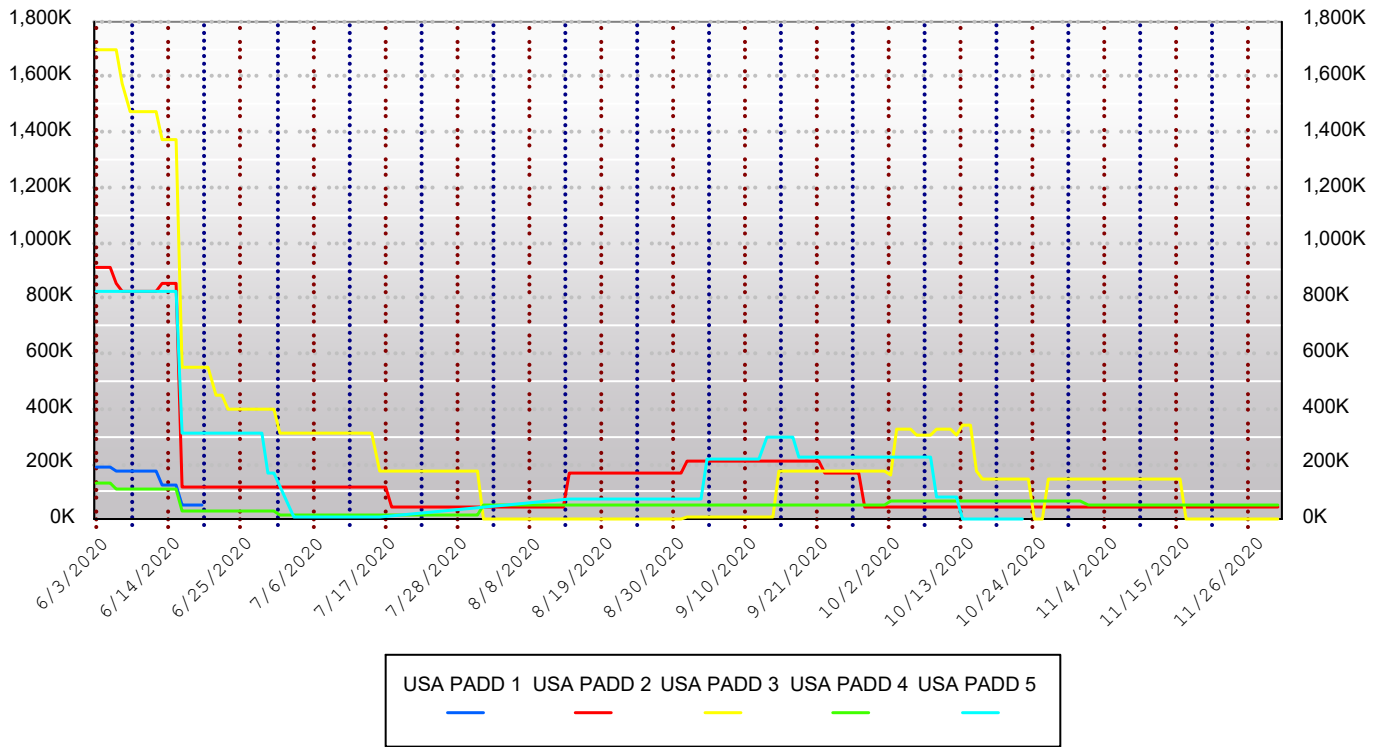
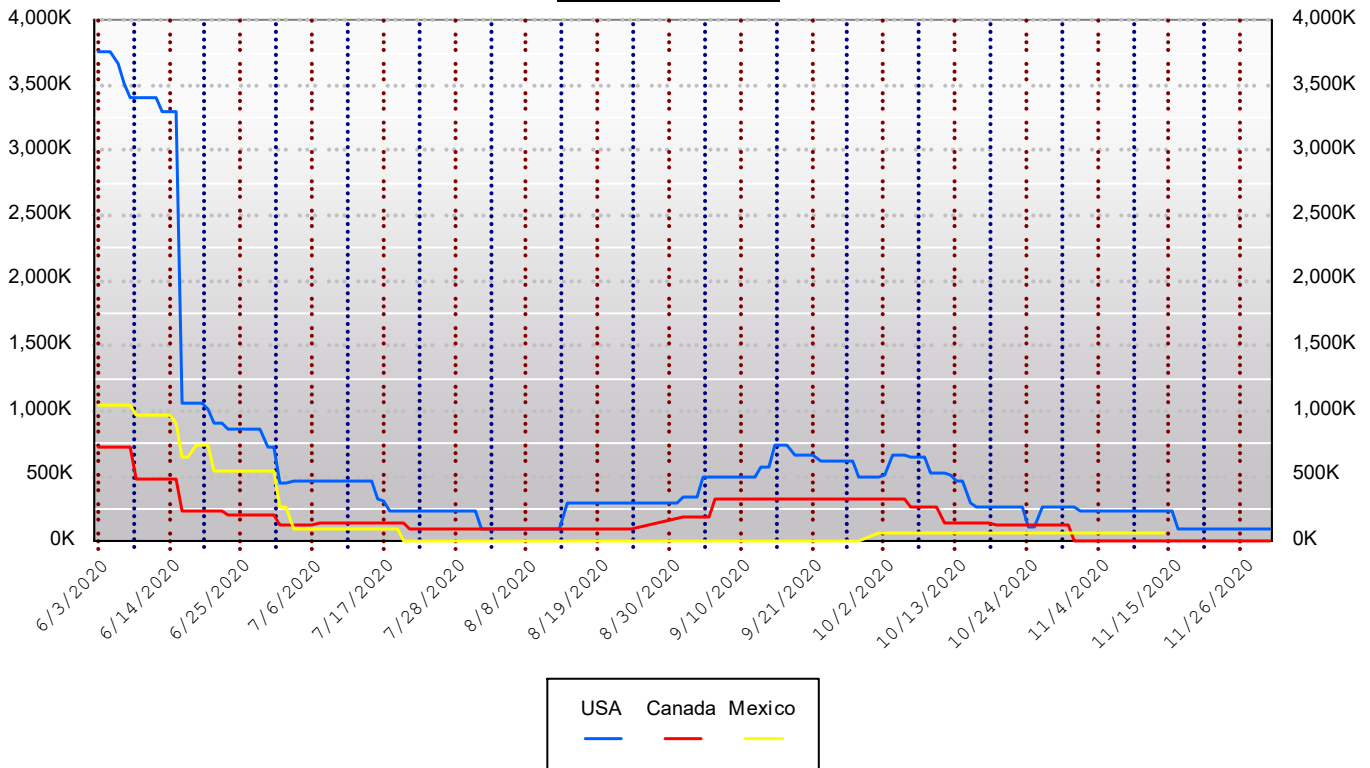




### CRUDE DISTILLATION UNITS Offline



### CDU bbls Offline



Last Date	Unit Name - Plant Name - Owner Name	Country	TA Start	TA End	Capacity	St	Utype Desc	Outage Type
<b>Changes / Additions</b>								
06/02/20	Combinada BA Unit 110 - Refineria Francisco I Madero (Ciudad Madero) - Pemex Transformacion Industrial	Mexico	06/01/20	06/30/20	16,000 bbl/d	TA	Atmospheric Distillation	U
New Turnaround: Comments: Rate cut due to inventory controls related to Company finances.								
06/02/20	Combo 3 (Crude 3 Unit 010) - Refineria Francisco I Madero (Ciudad Madero) - Pemex Transformacion Industrial	Mexico	06/01/20	06/30/20	75,350 bbl/d	TA	Atmospheric Distillation	U
New Turnaround: Comments: Rate cut due to inventory controls related to Company finances.								
06/03/20	Delayed Coker - Refineria Francisco I Madero (Ciudad Madero) - Pemex Transformacion Industrial	Mexico	06/03/20	06/16/20	23,500 bbl/d	TA	Delayed Coker	U
New Turnaround: Comments: Financial constraints related to Company finances.								
06/03/20	FCCU #1 (Unit 120) - Refineria Francisco I Madero (Ciudad Madero) - Pemex Transformacion Industrial	Mexico	06/03/20	06/16/20	16,450 bbl/d	TA	FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Financial constraints related to Company finances.								
06/03/20	FCCU #2 (U 100) - Refineria Francisco I Madero (Ciudad Madero) - Pemex Transformacion Industrial	Mexico	06/03/20	06/16/20	14,335 bbl/d	TA	FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Financial constraints related to Company finances.								
06/03/20	Platformer Unit 901 (Naphtha) - Refineria Francisco I Madero (Ciudad Madero) - Pemex Transformacion Industrial	Mexico	06/03/20	06/16/20	4,700 bbl/d	TA	CCR(Continuous Catalytic Reformer)	U
New Turnaround: Comments: Financial constraints related to Company finances.								
06/03/20	AVU 146 (Crude Still) - Port Arthur Refinery - Valero Refining Company	U.S.A.	03/27/20	07/15/20	107,200 bbl/d	TX	Atmospheric Distillation	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020								
06/03/20	AVU 147 (New Crude Still) - Port Arthur Refinery - Valero Refining Company	U.S.A.	03/27/20	07/15/20	30,000 bbl/d	TX	Atmospheric Distillation	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020								
06/03/20	CRU 1344 Platformer - Port Arthur Refinery - Valero Refining Company	U.S.A.	03/27/20	07/15/20	12,500 bbl/d	TX	Semiregen/Cyclic Reformer	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020								
06/03/20	CRU 1344 Platformer - Port Arthur Refinery - Valero Refining Company	U.S.A.	11/06/20	11/17/20	50,000 bbl/d	TX	Semiregen/Cyclic Reformer	U
CHANGE: Comments: Pushed out from June 5, 2020 start to November, 2020 for 12 days.--PREVSTART: 6/5/2020--PREVEND: 6/25/2020								
06/03/20	Crude - Congo Refinery - Ergon West Virginia Incorporated	U.S.A.	03/23/20	06/15/20	6,900 bbl/d	WV	Atmospheric Distillation	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/23/2020--PREVEND: 6/5/2020								
06/03/20	DCU 843 (Delayed Coker) - Port Arthur Refinery - Valero Refining Company	U.S.A.	03/27/20	07/15/20	25,000 bbl/d	TX	Delayed Coker	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020								
06/03/20	FCCU 1241 - Port Arthur Refinery - Valero Refining Company	U.S.A.	03/27/20	07/15/20	18,750 bbl/d	TX	FCCU (Fluid Catalytic Cracker)	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020								
06/03/20	Hydrocracker 942 - Port Arthur Refinery - Valero Refining Company	U.S.A.	03/27/20	07/15/20	11,250 bbl/d	TX	Distillate Hydrocracker	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020								
06/03/20	Hydroprocessing Unit A/B - Congo Refinery - Ergon West Virginia Incorporated	U.S.A.	03/23/20	06/15/20	1,290 bbl/d	WV	Distillate Hydrocracker	U

CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand--PREVSTART: 3/23/2020--PREVEND: 6/5/2020

06/03/20	Platformer - Congo Refinery - Ergon West Virginia Incorporated	U.S.A.	03/23/20	06/15/20	1,080 bbl/d	WV	Semiregen/Cyclic Reformer	U
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CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand--PREVSTART: 3/23/2020--PREVEND: 6/5/2020

06/03/20	VGO Hydrocracker Unit 943 - Port Arthur Refinery - Valero Refining Company	U.S.A.	05/12/20	07/15/20	57,000 bbl/d	TX	Distillate Hydrocracker	
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CHANGE: Comments: Catalyst work required moved forward from June, 2020.--PREVSTART: 5/12/2020--PREVEND: 6/15/2020

06/02/20	CCR Platformer - Paulsboro Refinery - Paulsboro Refining Company	U.S.A.	05/03/20	06/15/20	12,800 bbl/d	NJ	CCR(Continuous Catalytic Reformer)	U
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New Turnaround: Comments: Rate reduction due to COVID-19

06/02/20	CP Catalytic Cracking Unit (CCU) - Martinez Refinery - Martinez Refining Company LLC	U.S.A.	06/02/20	06/15/20	21,000 bbl/d	CA	FCCU (Fluid Catalytic Cracker)	U
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New Turnaround: Comments: Reduced rates due to COVID-19 due to lack of demand.

06/02/20	Crude - Cheyenne Refinery - HollyFrontier Corporation	U.S.A.	03/25/20	07/31/20	15,600 bbl/d	WY	Atmospheric Distillation	U
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New Turnaround: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.

06/03/20	Crude - Bradford Refinery - American Refining Group Incorporated	U.S.A.	03/27/20	06/15/20	2,000 bbl/d	PA	Atmospheric Distillation	U
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New Turnaround: Comments: Rate reduction due to COVID-19

06/02/20	Crude - Evanston Refinery - Silver Eagle Refining Incorporated	U.S.A.	04/21/20	07/15/20	680 bbl/d	WY	Atmospheric Distillation	U
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New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.

06/02/20	Crude - Cheyenne Refinery - HollyFrontier Corporation	U.S.A.	08/01/20	03/15/22	52,000 bbl/d	WY	Atmospheric Distillation	
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New Turnaround: Comments: due to conversion of the facility into a Renewable Diesel plant

06/03/20	Crude 1 (Sweet) - Chalmette Refinery - Chalmette Refining LLC	U.S.A.	04/21/20	06/30/20	28,800 bbl/d	LA	Atmospheric Distillation	U
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New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.

06/03/20	Crude 2 (Sour) - Chalmette Refinery - Chalmette Refining LLC	U.S.A.	04/21/20	06/30/20	28,800 bbl/d	LA	Atmospheric Distillation	U
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New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.

06/03/20	Crude 543 (Sweet) - Trainer Refinery - Monroe Energy LLC	U.S.A.	03/23/20	06/19/20	25,250 bbl/d	PA	Atmospheric Distillation	U
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New Turnaround: Comments: Rate reduction due to COVID-19

06/03/20	Crude 544 (Sweet) - Trainer Refinery - Monroe Energy LLC	U.S.A.	03/23/20	06/19/20	25,250 bbl/d	PA	Atmospheric Distillation	
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New Turnaround: Comments: Rate reduction due to COVID-19

06/02/20	Crude 6 (Fuels) (Sour) - Paulsboro Refinery - Paulsboro Refining Company	U.S.A.	05/03/20	06/15/20	22,000 bbl/d	NJ	Atmospheric Distillation	U
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New Turnaround: Comments: Rate reduction due to COVID-19

06/02/20	Crude 7 (Lube) (Sour) - Paulsboro Refinery - Paulsboro Refining Company	U.S.A.	03/30/20	06/15/20	44,000 bbl/d	NJ	Atmospheric Distillation	U
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New Turnaround: Comments: Rate reduction due to COVID-19

06/02/20	Crude Unit (New) - Casper Refinery - Sinclair Oil Corporation	U.S.A.	04/01/20	06/15/20	5,000 bbl/d	WY	Atmospheric Distillation	U
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New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.

06/02/20	Delayed Coker - Cheyenne Refinery - HollyFrontier Corporation	U.S.A.	03/25/20	07/31/20	4,350 bbl/d	WY	Delayed Coker	U
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New Turnaround: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.

06/02/20	Delayed Coker - Paulsboro Refinery - Paulsboro Refining Company	U.S.A.	03/30/20	06/15/20	10,800 bbl/d	NJ	Delayed Coker	U
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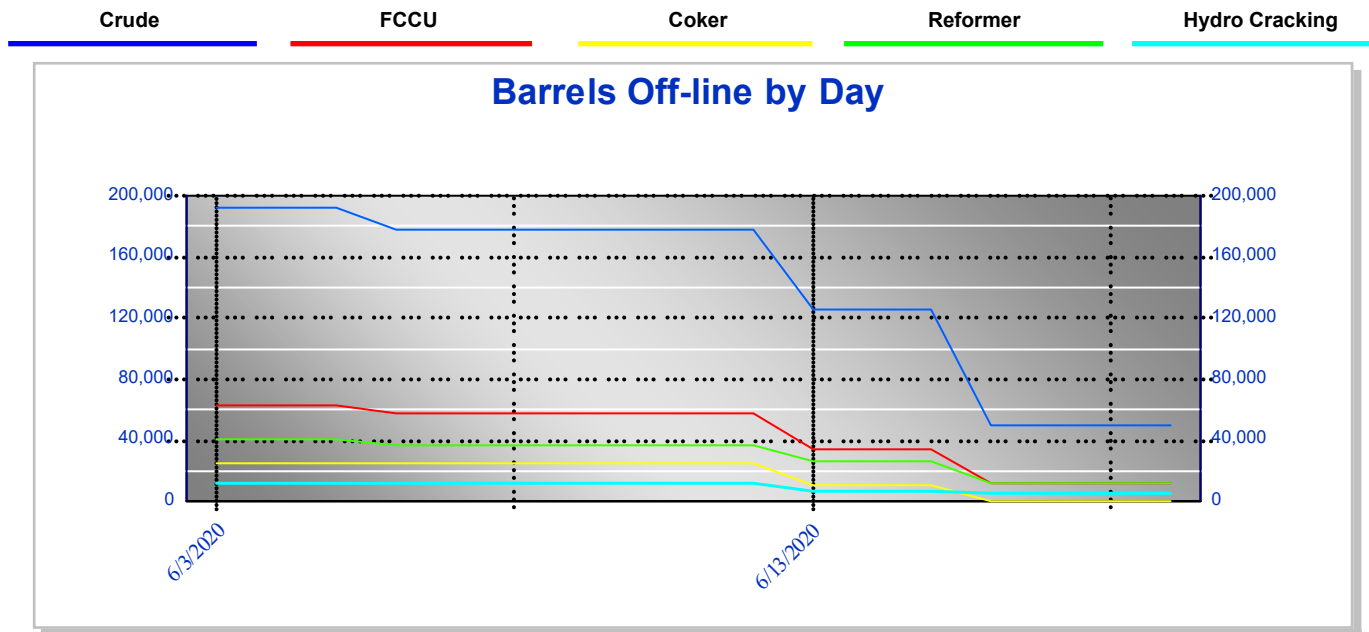
New Turnaround: Comments: Rate reduction due to COVID-19								
06/02/20	Delayed Coker - Cheyenne Refinery - HollyFrontier Corporation	U.S.A.	08/01/20	03/15/22	14,500 bbl/d	WY	Delayed Coker	
New Turnaround: Comments: due to conversion of the facility into a Renewable Diesel plant								
06/03/20	Delayed Coker 2 (Sour) - Chalmette Refinery - Chalmette Refining LLC	U.S.A.	03/30/20	06/30/20	9,000 bbl/d	LA	Delayed Coker	U
New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.								
06/03/20	FCCU - Trainer Refinery - Monroe Energy LLC	U.S.A.	03/23/20	06/19/20	12,500 bbl/d	PA	FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Rate reduction due to COVID-19								
06/02/20	FCCU - Cheyenne Refinery - HollyFrontier Corporation	U.S.A.	03/25/20	07/31/20	3,600 bbl/d	WY	FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.								
06/02/20	FCCU - Paulsboro Refinery - Paulsboro Refining Company	U.S.A.	03/30/20	06/15/20	22,000 bbl/d	NJ	FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Rate reduction due to COVID-19								
06/02/20	FCCU - Casper Refinery - Sinclair Oil Corporation	U.S.A.	04/01/20	06/15/20	2,600 bbl/d	WY	FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.								
06/02/20	FCCU - Cheyenne Refinery - HollyFrontier Corporation	U.S.A.	08/01/20	03/15/22	12,000 bbl/d	WY	FCCU (Fluid Catalytic Cracker)	
New Turnaround: Comments: due to conversion of the facility into a Renewable Diesel plant								
06/03/20	FCCU 2 - Chalmette Refinery - Chalmette Refining LLC	U.S.A.	04/21/20	06/30/20	30,600 bbl/d	LA	FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.								
06/03/20	Isocracker - Trainer Refinery - Monroe Energy LLC	U.S.A.	03/23/20	06/19/20	6,000 bbl/d	PA	Distillate Hydrocracker	U
New Turnaround: Comments: Rate Reduction due to COVID-19								
06/02/20	Platformer - Cheyenne Refinery - HollyFrontier Corporation	U.S.A.	03/25/20	07/31/20	2,760 bbl/d	WY	Semiregen/Cyclic Reformer	U
New Turnaround: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.								
06/03/20	Platformer - Bradford Refinery - American Refining Group Incorporated	U.S.A.	03/27/20	06/15/20	360 bbl/d	PA	Semiregen/Cyclic Reformer	U
New Turnaround: Comments: Rate reduction due to COVID-19								
06/02/20	Platformer - Cheyenne Refinery - HollyFrontier Corporation	U.S.A.	08/01/20	03/15/22	9,200 bbl/d	WY	Semiregen/Cyclic Reformer	
New Turnaround: Comments: due to conversion of the facility into a Renewable Diesel plant								
06/03/20	Platformer CCR - Trainer Refinery - Monroe Energy LLC	U.S.A.	03/23/20	06/19/20	12,250 bbl/d	PA	CCR(Continuous Catalytic Reformer)	U
New Turnaround: Comments: Rate Reduction due to COVID-19								
06/02/20	Reformer - Casper Refinery - Sinclair Oil Corporation	U.S.A.	04/01/20	06/15/20	1,500 bbl/d	WY	Semiregen/Cyclic Reformer	U
New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.								
06/02/20	Reformer - Evanston Refinery - Silver Eagle Refining Incorporated	U.S.A.	04/21/20	07/15/20	600 bbl/d	WY	Semiregen/Cyclic Reformer	U
New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.								
06/03/20	Reformer 1 (CCR) - Chalmette Refinery - Chalmette Refining LLC	U.S.A.	03/30/20	06/30/20	5,250 bbl/d	LA	CCR(Continuous Catalytic Reformer)	U
New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Cov-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.								
06/03/20	Reformer 3 Semi-Regen - Chalmette Refinery - Chalmette Refining LLC	U.S.A.	03/30/20	06/30/20	9,600 bbl/d	LA	Semiregen/Cyclic Reformer	U

New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 1



**Crude Distillation:** Daily Off-Line Capacity: 141,129 bbl/d      Total Off-line: 2,399,200      Date Range: 6/3/2020 - 6/19/2020

06/03/20	Monroe Energy LLC - Trainer Refinery	U.S.A.	03/23/20	06/19/20	25,250 bbl/d	PA Atmospheric Distillation	U
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**New Turnaround:** Comments: Rate reduction due to COVID-19

06/03/20	Monroe Energy LLC - Trainer Refinery	U.S.A.	03/23/20	06/19/20	25,250 bbl/d	PA Atmospheric Distillation	U
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**New Turnaround:** Comments: Rate reduction due to COVID-19

06/03/20	Ergon West Virginia Incorporated - Congo Refinery	U.S.A.	03/23/20	06/15/20	6,900 bbl/d	WV Atmospheric Distillation	U
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**CHANGE:** Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand--PREVSTART: 3/23/2020--PREVEND: 6/5/2020

06/03/20	American Refining Group Incorporated - Bradford Refinery	U.S.A.	03/27/20	06/15/20	2,000 bbl/d	PA Atmospheric Distillation	U
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**New Turnaround:** Comments: Rate reduction due to COVID-19

06/02/20	Delaware City Refining Company LLC - Delaware City Refinery	U.S.A.	03/23/20	06/12/20	52,500 bbl/d	DE Atmospheric Distillation	U
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06/02/20	Paulsboro Refining Company - Paulsboro Refinery	U.S.A.	03/30/20	06/15/20	44,000 bbl/d	NJ Atmospheric Distillation	U
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**New Turnaround:** Comments: Rate reduction due to COVID-19

06/02/20	Paulsboro Refining Company - Paulsboro Refinery	U.S.A.	05/03/20	06/15/20	22,000 bbl/d	NJ Atmospheric Distillation	U
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**New Turnaround:** Comments: Rate reduction due to COVID-19

05/28/20	United Refining Company - Warren Refinery	U.S.A.	03/22/20	06/05/20	14,000 bbl/d	PA Atmospheric Distillation	U
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**Reformers:** Daily Off-Line Capacity: 30,216 bbl/d      Total Off-line: 513,670      Date Range: 6/3/2020 - 6/19/2020

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 1

06/03/20	Monroe Energy LLC - Trainer Refinery	U.S.A.	03/23/20	06/19/20	12,250 bbl/d	PA CCR(Continuous Catalytic Reformer)	U
New Turnaround: Comments: Rate Reduction due to COVID-19							
06/03/20	Ergon West Virginia Incorporated - Congo Refinery	U.S.A.	03/23/20	06/15/20	1,080 bbl/d	WV Semiregen/Cyclic Reformer	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand--PREVSTART: 3/23/2020--PREVEND: 6/5/2020							
06/03/20	American Refining Group Incorporated - Bradford Refinery	U.S.A.	03/27/20	06/15/20	360 bbl/d	PA Semiregen/Cyclic Reformer	U
New Turnaround: Comments: Rate reduction due to COVID-19							
06/02/20	Delaware City Refining Company LLC - Delaware City Refinery	U.S.A.	03/23/20	06/12/20	11,070 bbl/d	DE CCR(Continuous Catalytic Reformer)	U
06/02/20	Paulsboro Refining Company - Paulsboro Refinery	U.S.A.	05/03/20	06/15/20	12,800 bbl/d	NJ CCR(Continuous Catalytic Reformer)	U
New Turnaround: Comments: Rate reduction due to COVID-19							
05/28/20	United Refining Company - Warren Refinery	U.S.A.	03/22/20	06/05/20	3,200 bbl/d	PA Semiregen/Cyclic Reformer	U
FCCU: Daily Off-Line Capacity: 44,182 bbl/d			Total Off-line: 751,100		Date Range: 6/3/2020 - 6/19/2020		
06/03/20	Monroe Energy LLC - Trainer Refinery	U.S.A.	03/23/20	06/19/20	12,500 bbl/d	PA FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Rate reduction due to COVID-19							
06/02/20	Delaware City Refining Company LLC - Delaware City Refinery	U.S.A.	03/23/20	06/12/20	24,000 bbl/d	DE FCCU (Fluid Catalytic Cracker)	U
06/02/20	Paulsboro Refining Company - Paulsboro Refinery	U.S.A.	03/30/20	06/15/20	22,000 bbl/d	NJ FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Rate reduction due to COVID-19							
05/28/20	United Refining Company - Warren Refinery	U.S.A.	03/22/20	06/05/20	4,200 bbl/d	PA FCCU (Fluid Catalytic Cracker)	U
Coker: Daily Off-Line Capacity: 22,108 bbl/d			Total Off-line: 287,400		Date Range: 6/3/2020 - 6/15/2020		
06/02/20	Delaware City Refining Company LLC - Delaware City Refinery	U.S.A.	03/23/20	06/12/20	14,700 bbl/d	DE Fluidized-Bed Coker	U
06/02/20	Paulsboro Refining Company - Paulsboro Refinery	U.S.A.	03/30/20	06/15/20	10,800 bbl/d	NJ Delayed Coker	U
New Turnaround: Comments: Rate reduction due to COVID-19							
Hydrocrackers: Daily Off-Line Capacity: 10,163 bbl/d			Total Off-line: 172,770		Date Range: 6/3/2020 - 6/19/2020		
06/03/20	Monroe Energy LLC - Trainer Refinery	U.S.A.	03/23/20	06/19/20	6,000 bbl/d	PA Distillate Hydrocracker	U
New Turnaround: Comments: Rate Reduction due to COVID-19							
06/03/20	Ergon West Virginia Incorporated - Congo Refinery	U.S.A.	03/23/20	06/15/20	1,290 bbl/d	WV Distillate Hydrocracker	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 1

CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand--PREVSTART: 3/23/2020--PREVEND: 6/5/2020

06/02/20	Delaware City Refining Company LLC - Delaware City Refinery	U.S.A.	05/18/20	06/12/20	5,400 bbl/d	DE Distillate Hydrocracker	U
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Barrels Off-line from 6/3/2020 to 11/30/2020





### USA PADD 2

Crude

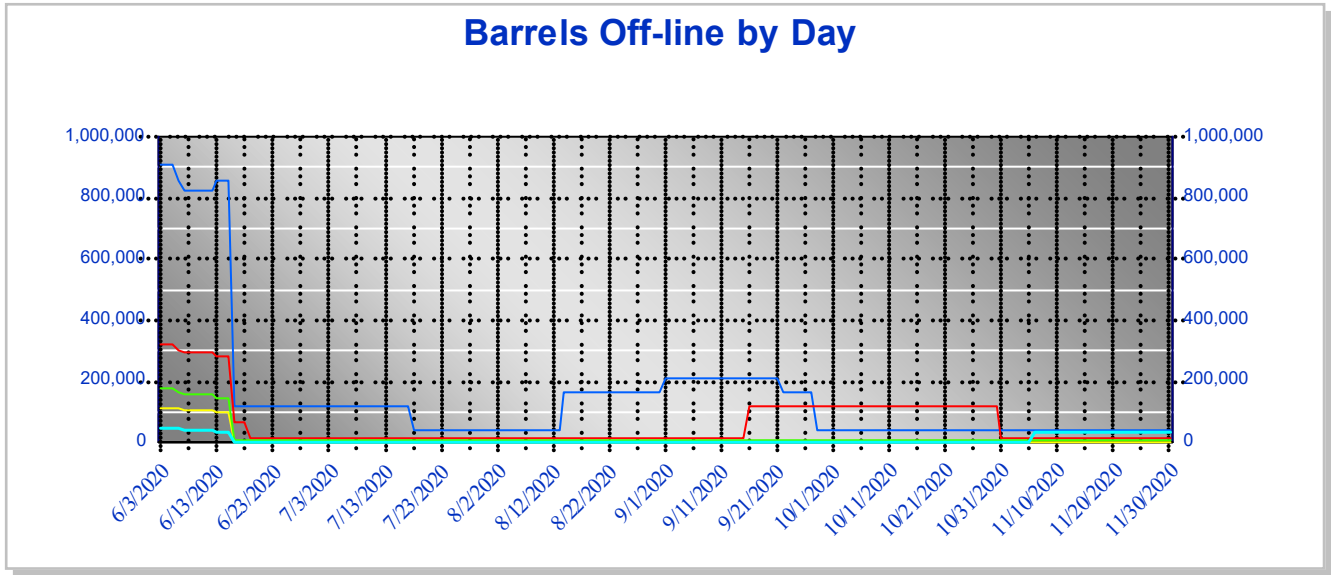
FCCU

Coker

Reformer

Hydro Cracking

### Barrels Off-line by Day



Crude Distillation: Daily Off-Line Capacity: 151,690 bbl/d

Total Off-line: 27,455,850

Date Range: 6/3/2020 - 11/30/2020

05/29/20	Marathon Petroleum Corporation - Canton Refinery	U.S.A.	04/06/20	06/15/20	40,000 bbl/d	OH Atmospheric Distillation	U
05/29/20	Marathon Petroleum Corporation - Robinson Refinery	U.S.A.	04/07/20	06/12/20	42,000 bbl/d	IL Atmospheric Distillation	U
05/27/20	CVR Energy Incorporated - Wynnewood Refinery	U.S.A.	03/25/20	06/05/20	8,750 bbl/d	OK Atmospheric Distillation	U
05/27/20	CVR Energy Incorporated - Wynnewood Refinery	U.S.A.	03/25/20	06/05/20	8,750 bbl/d	OK Atmospheric Distillation	U
05/26/20	Phillips 66 - Ponca City Refinery	U.S.A.	03/23/20	06/15/20	28,380 bbl/d	OK Atmospheric Distillation	U
05/26/20	Phillips 66 - Ponca City Refinery	U.S.A.	03/23/20	06/15/20	25,080 bbl/d	OK Atmospheric Distillation	U
05/26/20	Phillips 66 - Ponca City Refinery	U.S.A.	03/23/20	06/15/20	10,890 bbl/d	OK Atmospheric Distillation	U
05/26/20	HollyFrontier Corporation - El Dorado Refinery	U.S.A.	03/25/20	06/15/20	35,250 bbl/d	KS Atmospheric Distillation	U
05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	30,000 bbl/d	MN Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 2

05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	26,000 bbl/d	MN Atmospheric Distillation	U
05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	10,000 bbl/d	MN Atmospheric Distillation	U
05/21/20	HollyFrontier Corporation - Tulsa West Refinery (Lubes) (West)	U.S.A.	03/25/20	06/15/20	25,500 bbl/d	OK Atmospheric Distillation	U
05/21/20	HollyFrontier Corporation - Tulsa East Refinery (Fuels) (East)	U.S.A.	03/25/20	06/15/20	12,000 bbl/d	OK Atmospheric Distillation	U
05/21/20	Coffeyville Resources Refining & Marketing LLC - Coffeyville Refinery	U.S.A.	04/09/20	06/15/20	18,750 bbl/d	KS Atmospheric Distillation	U
05/21/20	Coffeyville Resources Refining & Marketing LLC - Coffeyville Refinery	U.S.A.	04/09/20	06/15/20	15,000 bbl/d	KS Atmospheric Distillation	U
05/21/20	Genex Harvest States Incorporated - McPherson Refinery	U.S.A.	04/15/20	06/15/20	11,800 bbl/d	KS Atmospheric Distillation	U
05/21/20	Genex Harvest States Incorporated - McPherson Refinery	U.S.A.	04/15/20	06/15/20	10,000 bbl/d	KS Atmospheric Distillation	U
05/21/20	Countrymark Cooperative LLP - Mount Vernon Refinery	U.S.A.	04/22/20	06/15/20	5,200 bbl/d	IN Atmospheric Distillation	U
05/21/20	Catlettsburg Refining LLC - Catlettsburg Refinery 2 - North	U.S.A.	05/21/20	06/05/20	18,000 bbl/d	KY Atmospheric Distillation	U
05/20/20	Catlettsburg Refining LLC - Catlettsburg Refinery 1 - South	U.S.A.	03/27/20	06/05/20	12,450 bbl/d	KY Atmospheric Distillation	U
05/20/20	Catlettsburg Refining LLC - Catlettsburg Refinery 1 - South	U.S.A.	03/27/20	06/05/20	5,250 bbl/d	KY Atmospheric Distillation	U
05/20/20	Toledo Refining Company LLC - Toledo Refinery	U.S.A.	03/30/20	06/15/20	80,000 bbl/d	OH Atmospheric Distillation	U
05/20/20	Toledo Refining Company LLC - Toledo Refinery	U.S.A.	03/30/20	06/15/20	24,000 bbl/d	OH Atmospheric Distillation	U
05/19/20	Husky Energy Incorporated - Lima Refinery	U.S.A.	03/25/20	06/06/20	33,000 bbl/d	OH Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Saint Paul Park Refinery	U.S.A.	03/25/20	06/15/20	10,400 bbl/d	MN Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



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### USA PADD 2

05/15/20	Marathon Petroleum Corporation - Saint Paul Park Refinery	U.S.A.	03/25/20	06/15/20	9,800 bbl/d	MN Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Detroit Refinery	U.S.A.	04/07/20	06/15/20	30,000 bbl/d	MI Atmospheric Distillation	U
05/06/20	CITGO Petroleum Corporation - Lemont Refinery	U.S.A.	05/22/20	06/15/20	33,400 bbl/d	IL Atmospheric Distillation	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	03/23/20	06/15/20	57,000 bbl/d	IL Atmospheric Distillation	U
04/30/20	ExxonMobil Corporation - Joliet Refinery	U.S.A.	03/23/20	06/15/20	46,000 bbl/d	IL Atmospheric Distillation	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	03/23/20	06/15/20	19,800 bbl/d	IL Atmospheric Distillation	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	03/30/20	06/15/20	120,000 bbl/d	IL Atmospheric Distillation	U
04/08/20	Husky Energy Incorporated - Superior Refinery	U.S.A.	04/26/18	01/01/22	45,000 bbl/d	WI Atmospheric Distillation	U
03/03/20	Catlettsburg Refining LLC - Catlettsburg Refinery 2 - North	U.S.A.	08/14/20	09/27/20	120,000 bbl/d	KY Atmospheric Distillation	
10/17/19	Marathon Petroleum Corporation - Saint Paul Park Refinery	U.S.A.	09/01/20	09/21/20	49,000 bbl/d	MN Atmospheric Distillation	
05/15/19	BP Products North America Incorporated - Whiting Refinery	U.S.A.	06/13/20	07/17/20	75,000 bbl/d	IN Atmospheric Distillation	

Reformers: Daily Off-Line Capacity: 19,063 bbl/d

Total Off-line: 3,450,325

Date Range: 6/3/2020 - 11/30/2020

05/29/20	Marathon Petroleum Corporation - Canton Refinery	U.S.A.	04/06/20	06/15/20	9,500 bbl/d	OH CCR(Continuous Catalytic Reformer)	U
05/29/20	Marathon Petroleum Corporation - Robinson Refinery	U.S.A.	04/07/20	06/12/20	7,700 bbl/d	IL CCR(Continuous Catalytic Reformer)	U
05/29/20	Marathon Petroleum Corporation - Robinson Refinery	U.S.A.	04/07/20	06/12/20	7,000 bbl/d	IL Semiregen/Cyclic Reformer	U
05/27/20	CVR Energy Incorporated - Wynnewood Refinery	U.S.A.	03/25/20	06/05/20	3,750 bbl/d	OK CCR(Continuous Catalytic Reformer)	U
05/26/20	Phillips 66 - Ponca City Refinery	U.S.A.	03/23/20	06/15/20	6,600 bbl/d	OK Semiregen/Cyclic Reformer	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 2

05/26/20	Phillips 66 - Ponca City Refinery	U.S.A.	03/23/20	06/15/20	6,600 bbl/d	OK Semiregen/Cyclic Reformer	U
05/26/20	HollyFrontier Corporation - El Dorado Refinery	U.S.A.	03/25/20	06/15/20	5,500 bbl/d	KS Semiregen/Cyclic Reformer	U
05/26/20	HollyFrontier Corporation - El Dorado Refinery	U.S.A.	03/25/20	06/15/20	1,875 bbl/d	KS Semiregen/Cyclic Reformer	U
05/26/20	Marathon Petroleum Corporation - Saint Paul Park Refinery	U.S.A.	04/23/20	06/15/20	2,250 bbl/d	MN Semiregen/Cyclic Reformer	U
05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	7,400 bbl/d	MN Semiregen/Cyclic Reformer	U
05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	6,800 bbl/d	MN CCR(Continuous Catalytic Reformer)	U
05/21/20	HollyFrontier Corporation - Tulsa East Refinery (Fuels) (East)	U.S.A.	03/25/20	06/15/20	6,600 bbl/d	OK CCR(Continuous Catalytic Reformer)	U
05/21/20	HollyFrontier Corporation - Tulsa West Refinery (Lubes) (West)	U.S.A.	03/25/20	06/15/20	3,000 bbl/d	OK Semiregen/Cyclic Reformer	U
05/21/20	Coffeyville Resources Refining & Marketing LLC - Coffeyville Refinery	U.S.A.	04/11/20	06/15/20	6,250 bbl/d	KS CCR(Continuous Catalytic Reformer)	U
05/21/20	Cenex Harvest States Incorporated - McPherson Refinery	U.S.A.	04/15/20	06/15/20	4,800 bbl/d	KS CCR(Continuous Catalytic Reformer)	U
05/21/20	Countrymark Cooperative LLP - Mount Vernon Refinery	U.S.A.	04/22/20	06/15/20	1,300 bbl/d	IN CCR(Continuous Catalytic Reformer)	U
05/20/20	Catlettsburg Refining LLC - Catlettsburg Refinery 2 - North	U.S.A.	03/27/20	06/05/20	4,650 bbl/d	KY CCR(Continuous Catalytic Reformer)	U
05/20/20	Catlettsburg Refining LLC - Catlettsburg Refinery 1 - South	U.S.A.	03/27/20	06/05/20	3,000 bbl/d	KY CCR(Continuous Catalytic Reformer)	U
05/20/20	Toledo Refining Company LLC - Toledo Refinery	U.S.A.	03/30/20	06/15/20	9,000 bbl/d	OH Semiregen/Cyclic Reformer	U
05/20/20	Toledo Refining Company LLC - Toledo Refinery	U.S.A.	03/30/20	06/15/20	4,500 bbl/d	OH Semiregen/Cyclic Reformer	U
05/19/20	Husky Energy Incorporated - Lima Refinery	U.S.A.	03/25/20	06/06/20	8,000 bbl/d	OH Semiregen/Cyclic Reformer	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 2

05/15/20	Marathon Petroleum Corporation - Saint Paul Park Refinery	U.S.A.	03/25/20	06/15/20	2,250 bbl/d	MN Semiregen/Cyclic Reformer	U
05/15/20	Marathon Petroleum Corporation - Detroit Refinery	U.S.A.	04/07/20	06/15/20	5,000 bbl/d	MI Semiregen/Cyclic Reformer	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	03/23/20	06/15/20	15,000 bbl/d	IL Semiregen/Cyclic Reformer	U
04/30/20	ExxonMobil Corporation - Joliet Refinery	U.S.A.	03/23/20	06/15/20	10,400 bbl/d	IL CCR(Continuous Catalytic Reformer)	U
04/30/20	CITGO Petroleum Corporation - Lemont Refinery	U.S.A.	03/23/20	06/15/20	4,000 bbl/d	IL Semiregen/Cyclic Reformer	U
04/30/20	CITGO Petroleum Corporation - Lemont Refinery	U.S.A.	03/23/20	06/15/20	4,000 bbl/d	IL Semiregen/Cyclic Reformer	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	04/02/20	06/15/20	15,000 bbl/d	IL Semiregen/Cyclic Reformer	U
04/08/20	Husky Energy Incorporated - Superior Refinery	U.S.A.	04/26/18	01/01/22	8,000 bbl/d	WI Semiregen/Cyclic Reformer	U
<b>FCCU: Daily Off-Line Capacity: 61,805 bbl/d</b>		<b>Total Off-line: 11,186,710</b>		<b>Date Range: 6/3/2020 - 11/30/2020</b>			
05/29/20	Marathon Petroleum Corporation - Canton Refinery	U.S.A.	04/06/20	06/15/20	13,000 bbl/d	OH FCCU (Fluid Catalytic Cracker)	U
05/29/20	Marathon Petroleum Corporation - Robinson Refinery	U.S.A.	04/07/20	06/12/20	10,500 bbl/d	IL FCCU (Fluid Catalytic Cracker)	U
05/27/20	CITGO Petroleum Corporation - Lemont Refinery	U.S.A.	03/23/20	06/15/20	11,600 bbl/d	IL FCCU (Fluid Catalytic Cracker)	U
05/27/20	CVR Energy Incorporated - Wynnewood Refinery	U.S.A.	03/25/20	06/05/20	5,250 bbl/d	OK FCCU (Fluid Catalytic Cracker)	U
05/27/20	CITGO Petroleum Corporation - Lemont Refinery	U.S.A.	05/22/20	06/18/20	58,000 bbl/d	IL FCCU (Fluid Catalytic Cracker)	U
05/26/20	Phillips 66 - Ponca City Refinery	U.S.A.	03/23/20	06/15/20	11,550 bbl/d	OK FCCU (Fluid Catalytic Cracker)	U
05/26/20	Phillips 66 - Ponca City Refinery	U.S.A.	03/23/20	06/15/20	8,580 bbl/d	OK FCCU (Fluid Catalytic Cracker)	U
05/26/20	HollyFrontier Corporation - El Dorado Refinery	U.S.A.	03/25/20	06/15/20	9,750 bbl/d	KS FCCU (Fluid Catalytic Cracker)	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 2

05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	17,000 bbl/d	MN FCCU (Fluid Catalytic Cracker)	U
05/21/20	HollyFrontier Corporation - Tulsa East Refinery (Fuels) (East)	U.S.A.	03/25/20	06/15/20	8,700 bbl/d	OK FCCU (Fluid Catalytic Cracker)	U
05/21/20	Catlettsburg Refining LLC - Catlettsburg Refinery 2 - North	U.S.A.	03/27/20	06/05/20	14,700 bbl/d	KY FCCU (Fluid Catalytic Cracker)	U
05/21/20	Coffeyville Resources Refining & Marketing LLC - Coffeyville Refinery	U.S.A.	04/11/20	06/15/20	8,000 bbl/d	KS FCCU (Fluid Catalytic Cracker)	U
05/21/20	Genex Harvest States Incorporated - McPherson Refinery	U.S.A.	04/15/20	06/15/20	4,540 bbl/d	KS FCCU (Fluid Catalytic Cracker)	U
05/21/20	Countrymark Cooperative LLP - Mount Vernon Refinery	U.S.A.	04/22/20	06/15/20	1,600 bbl/d	IN FCCU (Fluid Catalytic Cracker)	U
05/20/20	Toledo Refining Company LLC - Toledo Refinery	U.S.A.	05/16/20	06/15/20	23,700 bbl/d	OH FCCU (Fluid Catalytic Cracker)	U
05/19/20	Husky Energy Incorporated - Lima Refinery	U.S.A.	03/25/20	06/06/20	8,000 bbl/d	OH FCCU (Fluid Catalytic Cracker)	U
05/15/20	Marathon Petroleum Corporation - Saint Paul Park Refinery	U.S.A.	03/25/20	06/15/20	5,700 bbl/d	MN FCCU (Fluid Catalytic Cracker)	U
05/15/20	Marathon Petroleum Corporation - Detroit Refinery	U.S.A.	04/07/20	06/15/20	12,500 bbl/d	MI FCCU (Fluid Catalytic Cracker)	U
04/30/20	ExxonMobil Corporation - Joliet Refinery	U.S.A.	03/23/20	06/15/20	19,600 bbl/d	IL FCCU (Fluid Catalytic Cracker)	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	03/23/20	06/15/20	14,400 bbl/d	IL FCCU (Fluid Catalytic Cracker)	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	04/02/20	06/15/20	42,000 bbl/d	IL FCCU (Fluid Catalytic Cracker)	U
04/08/20	Husky Energy Incorporated - Superior Refinery	U.S.A.	04/26/18	01/01/22	13,000 bbl/d	WI FCCU (Fluid Catalytic Cracker)	U
01/08/19	BP Products North America Incorporated - Whiting Refinery	U.S.A.	09/16/20	10/30/20	110,000 bbl/d	IN FCCU (Fluid Catalytic Cracker)	U
05/29/20	Marathon Petroleum Corporation - Robinson Refinery	U.S.A.	04/07/20	06/12/20	3,000 bbl/d	IL Delayed Coker	U

Coker: Daily Off-Line Capacity: 107,856 bbl/d

Total Off-line: 1,402,125

Date Range: 6/3/2020 - 6/15/2020

Barrels Off-line from 6/3/2020 to 11/30/2020



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### USA PADD 2

05/29/20	Marathon Petroleum Corporation - Robinson Refinery	U.S.A.	04/07/20	06/12/20	3,000 bbl/d	IL	Delayed Coker	U
05/27/20	CITGO Petroleum Corporation - Lemont Refinery	U.S.A.	05/22/20	06/15/20	7,600 bbl/d	IL	Delayed Coker	U
05/26/20	Phillips 66 - Ponca City Refinery	U.S.A.	03/23/20	06/15/20	7,425 bbl/d	OK	Delayed Coker	U
05/26/20	HollyFrontier Corporation - El Dorado Refinery	U.S.A.	03/25/20	06/15/20	5,125 bbl/d	KS	Delayed Coker	U
05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	7,200 bbl/d	MN	Delayed Coker	U
05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	3,300 bbl/d	MN	Delayed Coker	U
05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	3,300 bbl/d	MN	Delayed Coker	U
05/21/20	HollyFrontier Corporation - Tulsa West Refinery (Lubes) (West)	U.S.A.	03/25/20	06/15/20	2,700 bbl/d	OK	Delayed Coker	U
05/21/20	Coffeyville Resources Refining & Marketing LLC - Coffeyville Refinery	U.S.A.	04/11/20	06/15/20	4,875 bbl/d	KS	Delayed Coker	U
05/21/20	Cenex Harvest States Incorporated - McPherson Refinery	U.S.A.	04/15/20	06/15/20	5,000 bbl/d	KS	Delayed Coker	U
05/19/20	Husky Energy Incorporated - Lima Refinery	U.S.A.	03/25/20	06/06/20	4,600 bbl/d	OH	Delayed Coker	U
05/15/20	Marathon Petroleum Corporation - Detroit Refinery	U.S.A.	04/07/20	06/15/20	7,000 bbl/d	MI	Delayed Coker	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	03/23/20	06/15/20	19,500 bbl/d	IL	Delayed Coker	U
04/30/20	ExxonMobil Corporation - Joliet Refinery	U.S.A.	03/23/20	06/15/20	11,800 bbl/d	IL	Delayed Coker	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	04/02/20	06/15/20	17,000 bbl/d	IL	Delayed Coker	U

Hydrocrackers: Daily Off-Line Capacity: 7,554 bbl/d

Total Off-line: 1,367,200

Date Range: 6/3/2020 - 11/30/2020

05/29/20	Marathon Petroleum Corporation - Robinson Refinery	U.S.A.	04/07/20	06/12/20	5,600 bbl/d	IL	Distillate Hydrocracker	U
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Barrels Off-line from 6/3/2020 to 11/30/2020



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### USA PADD 2

05/22/20	Flint Hills Resources Limited Partnership - Pine Bend Refinery	U.S.A.	03/25/20	06/15/20	8,800 bbl/d	MN Distillate Hydrocracker	U
05/21/20	Cenex Harvest States Incorporated - McPherson Refinery	U.S.A.	04/15/20	06/15/20	6,000 bbl/d	KS Distillate Hydrocracker	U
05/20/20	Toledo Refining Company LLC - Toledo Refinery	U.S.A.	03/30/20	06/15/20	9,600 bbl/d	OH Distillate Hydrocracker	U
05/19/20	Husky Energy Incorporated - Lima Refinery	U.S.A.	03/25/20	06/06/20	5,200 bbl/d	OH Distillate Hydrocracker	U
04/30/20	WRB Refining LP - Wood River Refinery	U.S.A.	03/23/20	06/15/20	11,400 bbl/d	IL Distillate Hydrocracker	U
12/18/19	Valero Refining Company - Memphis Refinery	U.S.A.	11/06/20	12/04/20	33,000 bbl/d	TN Distillate Hydrocracker	U

Barrels Off-line from 6/3/2020 to 11/30/2020





### USA PADD 3

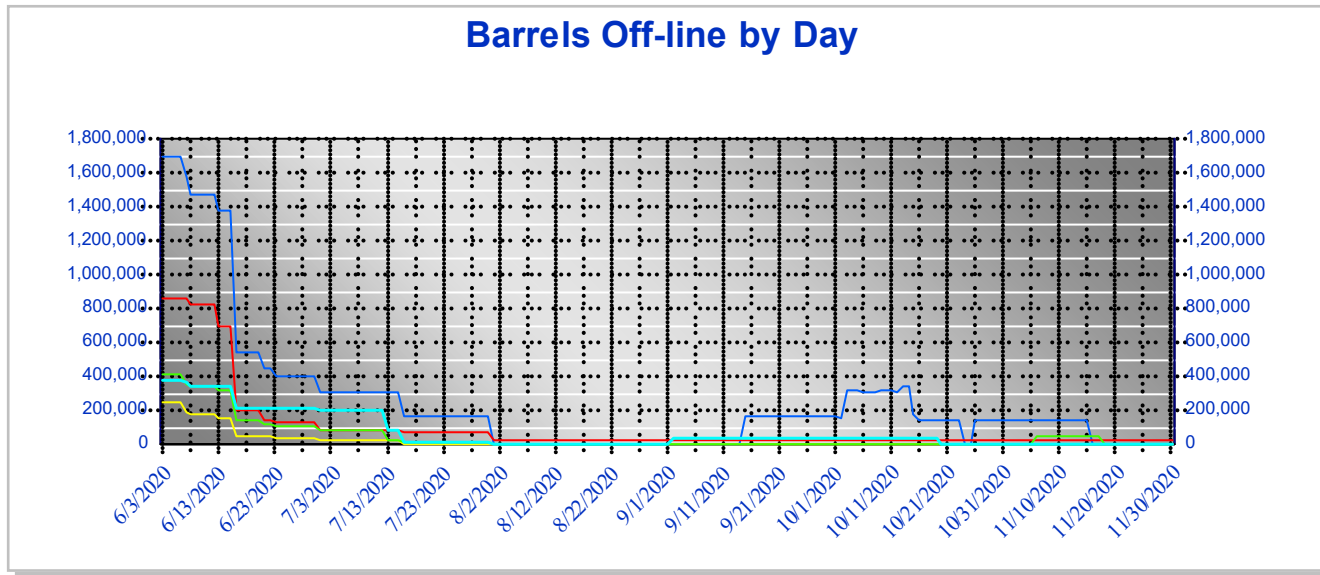
Crude

FCCU

Coker

Reformer

Hydro Cracking



Crude Distillation: Daily Off-Line Capacity: 274,999 bbl/d

Total Off-line: 45,649,905

Date Range: 6/3/2020 - 11/15/2020

06/03/20	Valero Refining Company - Port Arthur Refinery	U.S.A.	03/27/20	07/15/20	107,200 bbl/d	TX	Atmospheric Distillation	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020								
06/03/20	Valero Refining Company - Port Arthur Refinery	U.S.A.	03/27/20	07/15/20	30,000 bbl/d	TX	Atmospheric Distillation	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020								
06/03/20	Chalmette Refining LLC - Chalmette Refinery	U.S.A.	04/21/20	06/30/20	28,800 bbl/d	LA	Atmospheric Distillation	U
New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.								
06/03/20	Chalmette Refining LLC - Chalmette Refinery	U.S.A.	04/21/20	06/30/20	28,800 bbl/d	LA	Atmospheric Distillation	U
New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.								
06/02/20	Shell Oil Products US - Convent Refinery	U.S.A.	03/31/20	07/31/20	26,000 bbl/d	LA	Atmospheric Distillation	U
06/02/20	Shell Oil Products US - Convent Refinery	U.S.A.	04/22/20	07/31/20	100,000 bbl/d	LA	Atmospheric Distillation	U
06/02/20	Shell Oil Products US - Norco Refinery	U.S.A.	05/31/20	07/31/20	48,000 bbl/d	LA	Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 3

06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/23/20	06/12/20	42,000 bbl/d	LA Atmospheric Distillation	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/23/20	06/12/20	22,000 bbl/d	LA Atmospheric Distillation	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/23/20	06/12/20	18,000 bbl/d	LA Atmospheric Distillation	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	05/09/20	06/12/20	18,000 bbl/d	LA Atmospheric Distillation	U
06/01/20	ExxonMobil Corporation - Beaumont Refinery	U.S.A.	05/30/20	06/15/20	48,000 bbl/d	TX Atmospheric Distillation	U
05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	03/23/20	06/15/20	56,060 bbl/d	TX Atmospheric Distillation	U
05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	03/23/20	06/15/20	27,000 bbl/d	TX Atmospheric Distillation	U
05/29/20	ExxonMobil Corporation - Beaumont Refinery	U.S.A.	03/23/20	06/15/20	22,000 bbl/d	TX Atmospheric Distillation	U
05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	03/23/20	06/15/20	20,000 bbl/d	TX Atmospheric Distillation	U
05/29/20	ExxonMobil Corporation - Beaumont Refinery	U.S.A.	03/23/20	06/15/20	3,000 bbl/d	TX Vacuum (No Atmospheric)	U
05/29/20	Total Petrochemicals & Refining USA Incorporated - Port Arthur Refinery	U.S.A.	03/30/20	06/15/20	16,000 bbl/d	TX Atmospheric Distillation	U
05/29/20	Valero Refining Company - Three Rivers Refinery	U.S.A.	03/30/20	06/15/20	14,250 bbl/d	TX Atmospheric Distillation	U
05/29/20	Valero Refining Company - Texas City Refinery	U.S.A.	03/30/20	06/15/20	12,750 bbl/d	TX Atmospheric Distillation	U
05/29/20	Valero Refining Company - Texas City Refinery	U.S.A.	03/30/20	06/15/20	12,750 bbl/d	TX Atmospheric Distillation	U
05/29/20	Valero Refining Company - Texas City Refinery	U.S.A.	03/30/20	06/15/20	8,250 bbl/d	TX Atmospheric Distillation	U
05/29/20	Valero Refining Company - Three Rivers Refinery	U.S.A.	03/30/20	06/15/20	375 bbl/d	TX Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 3

05/27/20	Calcasieu Refining Company - Lake Charles Refinery	U.S.A.	03/16/20	06/30/20	19,500 bbl/d	LA Atmospheric Distillation	U
05/27/20	Calcasieu Refining Company - Lake Charles Refinery	U.S.A.	03/16/20	06/30/20	7,500 bbl/d	LA Atmospheric Distillation	U
05/27/20	Navajo Refining Company Limited Partnership - Lovington Refinery	U.S.A.	03/25/20	06/15/20	9,000 bbl/d	NM Atmospheric Distillation	U
05/27/20	Valero Refining Company - McKee Refinery	U.S.A.	03/30/20	06/15/20	28,500 bbl/d	TX Atmospheric Distillation	U
05/27/20	Valero Refining Company - McKee Refinery	U.S.A.	03/30/20	06/15/20	24,000 bbl/d	TX Atmospheric Distillation	U
05/27/20	Valero Refining Company - Saint Charles Refinery	U.S.A.	03/31/20	06/15/20	58,750 bbl/d	LA Atmospheric Distillation	U
05/27/20	Phillips 66 - Alliance Refinery	U.S.A.	05/09/20	06/15/20	50,000 bbl/d	LA Atmospheric Distillation	U
05/27/20	Phillips 66 - Lake Charles Refinery	U.S.A.	05/12/20	06/22/20	24,400 bbl/d	LA Atmospheric Distillation	U
05/27/20	Phillips 66 - Lake Charles Refinery	U.S.A.	05/12/20	06/22/20	12,000 bbl/d	LA Atmospheric Distillation	U
05/27/20	Phillips 66 - Lake Charles Refinery	U.S.A.	05/12/20	06/22/20	12,000 bbl/d	LA Atmospheric Distillation	U
05/26/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/23/20	06/15/20	30,000 bbl/d	LA Atmospheric Distillation	U
05/26/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/23/20	06/15/20	24,000 bbl/d	LA Atmospheric Distillation	U
05/26/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/23/20	06/15/20	14,000 bbl/d	LA Atmospheric Distillation	U
05/26/20	Valero Refining Company - Houston Refinery	U.S.A.	05/23/20	06/15/20	13,500 bbl/d	TX Atmospheric Distillation	U
05/21/20	Navajo Refining Company Limited Partnership - Navajo Refinery	U.S.A.	03/25/20	06/15/20	19,500 bbl/d	NM Atmospheric Distillation	U
05/21/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	04/06/20	06/06/20	100,000 bbl/d	LA Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 3

05/20/20	Ergon Refining Incorporated - Vicksburg Refinery	U.S.A.	04/11/20	06/30/20	4,600 bbl/d	MS Atmospheric Distillation	U
05/18/20	Phillips 66 - Sweeny Refinery	U.S.A.	03/23/20	06/15/20	35,000 bbl/d	TX Atmospheric Distillation	U
05/18/20	Phillips 66 - Sweeny Refinery	U.S.A.	03/23/20	06/15/20	14,400 bbl/d	TX Atmospheric Distillation	U
05/18/20	Valero Refining Company - Meraux Refinery	U.S.A.	04/14/20	06/06/20	20,250 bbl/d	LA Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	03/23/20	06/07/20	44,000 bbl/d	LA Atmospheric Distillation	U
05/15/20	CITGO Petroleum Corporation - Corpus Christi Refinery-East	U.S.A.	03/23/20	06/15/20	33,000 bbl/d	TX Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	03/23/20	06/07/20	29,000 bbl/d	LA Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	03/23/20	06/07/20	29,000 bbl/d	LA Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	03/27/20	06/15/20	45,000 bbl/d	TX Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	03/27/20	06/15/20	45,000 bbl/d	TX Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Texas City Refinery	U.S.A.	03/27/20	06/15/20	10,000 bbl/d	TX Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Texas City Refinery	U.S.A.	03/27/20	06/15/20	4,000 bbl/d	TX Atmospheric Distillation	U
05/14/20	Flint Hills Resources Limited Partnership - Corpus Christi Refinery - West	U.S.A.	04/06/20	06/15/20	35,600 bbl/d	TX Atmospheric Distillation	U
05/14/20	Flint Hills Resources Limited Partnership - Corpus Christi Refinery - West	U.S.A.	04/06/20	06/15/20	11,600 bbl/d	TX Atmospheric Distillation	U
05/14/20	Flint Hills Resources Limited Partnership - Corpus Christi Refinery - East	U.S.A.	04/10/20	06/15/20	12,000 bbl/d	TX Atmospheric Distillation	U
05/14/20	Marathon Petroleum Corporation - Gallup Refinery	U.S.A.	04/14/20	06/15/20	26,000 bbl/d	NM Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 3

05/14/20	Valero Refining Company - Houston Refinery	U.S.A.	05/09/20	06/15/20	13,500 bbl/d	TX Atmospheric Distillation	U
05/13/20	Chevron Corporation - Pasadena Refinery	U.S.A.	04/06/20	06/20/20	100,000 bbl/d	TX Atmospheric Distillation	
05/11/20	WRB Refining LP - Borger Refinery	U.S.A.	03/27/20	06/15/20	13,400 bbl/d	TX Atmospheric Distillation	U
05/11/20	WRB Refining LP - Borger Refinery	U.S.A.	03/27/20	06/15/20	8,200 bbl/d	TX Atmospheric Distillation	U
05/11/20	WRB Refining LP - Borger Refinery	U.S.A.	03/27/20	06/15/20	7,400 bbl/d	TX Atmospheric Distillation	U
04/22/20	WRB Refining LP - Borger Refinery	U.S.A.	10/03/20	10/05/20	20,500 bbl/d	TX Atmospheric Distillation	
04/22/20	WRB Refining LP - Borger Refinery	U.S.A.	10/09/20	10/11/20	18,500 bbl/d	TX Atmospheric Distillation	
04/22/20	WRB Refining LP - Borger Refinery	U.S.A.	10/13/20	10/15/20	33,500 bbl/d	TX Atmospheric Distillation	
04/20/20	Chevron Corporation - Pascagoula Refinery	U.S.A.	09/15/20	10/14/20	162,500 bbl/d	MS Atmospheric Distillation	
10/24/19	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	10/03/20	10/23/20	145,000 bbl/d	LA Atmospheric Distillation	
10/24/19	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	10/26/20	11/15/20	145,000 bbl/d	LA Atmospheric Distillation	
09/17/19	Hunt Refining Company - Sandersville Refinery	U.S.A.	09/01/20	10/01/20	10,000 bbl/d	MS Atmospheric Distillation	

Reformers: Daily Off-Line Capacity: 51,390 bbl/d

Total Off-line: 8,633,500

Date Range: 6/3/2020 - 11/17/2020

06/03/20	Valero Refining Company - Port Arthur Refinery	U.S.A.	03/27/20	07/15/20	12,500 bbl/d	TX Semiregen/Cyclic Reformer	U
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CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020

06/03/20	Chalmette Refining LLC - Chalmette Refinery	U.S.A.	03/30/20	06/30/20	9,600 bbl/d	LA Semiregen/Cyclic Reformer	U
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New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.

06/03/20	Chalmette Refining LLC - Chalmette Refinery	U.S.A.	03/30/20	06/30/20	5,250 bbl/d	LA CCR(Continuous Catalytic Reformer)	U
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New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Cov-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 3

06/03/20	WRB Refining LP - Borger Refinery	U.S.A.	06/03/20	06/15/20	1,400 bbl/d	TX Semiregen/Cyclic Reformer	U
06/03/20	Valero Refining Company - Port Arthur Refinery	U.S.A.	11/06/20	11/17/20	50,000 bbl/d	TX Semiregen/Cyclic Reformer	U
<b>CHANGE: Comments: Pushed out from June 5, 2020 start to November, 2020 for 12 days.--PREVSTART: 6/5/2020--PREVEND: 6/25/2020</b>							
06/02/20	Shell Oil Products US - Convent Refinery	U.S.A.	03/31/20	07/31/20	8,000 bbl/d	LA Semiregen/Cyclic Reformer	U
06/02/20	Shell Oil Products US - Norco Refinery	U.S.A.	03/31/20	07/31/20	8,000 bbl/d	LA CCR(Continuous Catalytic Reformer)	U
06/02/20	Valero Refining Company - Bill Greehey Refinery-East	U.S.A.	04/09/20	06/15/20	10,000 bbl/d	TX Semiregen/Cyclic Reformer	U
06/02/20	Valero Refining Company - Three Rivers Refinery	U.S.A.	04/11/20	06/15/20	3,450 bbl/d	TX CCR(Continuous Catalytic Reformer)	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/23/20	06/12/20	7,800 bbl/d	LA Semiregen/Cyclic Reformer	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/30/20	06/12/20	7,800 bbl/d	LA Semiregen/Cyclic Reformer	U
05/29/20	ExxonMobil Corporation - Beaumont Refinery	U.S.A.	03/23/20	06/15/20	16,000 bbl/d	TX CCR(Continuous Catalytic Reformer)	U
05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	03/23/20	06/15/20	11,400 bbl/d	TX Semiregen/Cyclic Reformer	U
05/29/20	Valero Refining Company - Texas City Refinery	U.S.A.	03/30/20	06/15/20	2,700 bbl/d	TX CCR(Continuous Catalytic Reformer)	U
05/29/20	Valero Refining Company - Three Rivers Refinery	U.S.A.	03/30/20	06/15/20	1,500 bbl/d	TX Semiregen/Cyclic Reformer	U
05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	04/20/20	06/15/20	13,000 bbl/d	TX Semiregen/Cyclic Reformer	U
05/29/20	ExxonMobil Corporation - Beaumont Refinery	U.S.A.	05/15/20	06/15/20	15,000 bbl/d	TX CCR(Continuous Catalytic Reformer)	U
05/27/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/23/20	06/30/20	3,600 bbl/d	LA Semiregen/Cyclic Reformer	U
05/27/20	Valero Refining Company - McKee Refinery	U.S.A.	03/30/20	06/15/20	5,400 bbl/d	TX Semiregen/Cyclic Reformer	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 3

05/27/20	Valero Refining Company - Saint Charles Refinery	U.S.A.	03/31/20	06/15/20	6,250 bbl/d	LA	CCR(Continuous Catalytic Reformer)	U
05/27/20	Valero Refining Company - McKee Refinery	U.S.A.	05/07/20	06/15/20	8,400 bbl/d	TX	CCR(Continuous Catalytic Reformer)	U
05/27/20	Phillips 66 - Alliance Refinery	U.S.A.	05/09/20	06/15/20	6,600 bbl/d	LA	Semiregen/Cyclic Reformer	U
05/27/20	Phillips 66 - Lake Charles Refinery	U.S.A.	05/12/20	06/22/20	6,800 bbl/d	LA	CCR(Continuous Catalytic Reformer)	U
05/26/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/23/20	06/15/20	6,000 bbl/d	LA	Semiregen/Cyclic Reformer	U
05/26/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	05/25/20	07/12/20	65,000 bbl/d	TX	Semiregen/Cyclic Reformer	U
05/21/20	Navajo Refining Company Limited Partnership - Navajo Refinery	U.S.A.	03/25/20	06/15/20	5,100 bbl/d	NM	CCR(Continuous Catalytic Reformer)	U
05/21/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	04/08/20	06/06/20	52,000 bbl/d	LA	CCR(Continuous Catalytic Reformer)	U
05/18/20	Phillips 66 - Sweeny Refinery	U.S.A.	03/23/20	06/15/20	7,000 bbl/d	TX	CCR(Continuous Catalytic Reformer)	U
05/18/20	Valero Refining Company - Meraux Refinery	U.S.A.	04/14/20	06/06/20	4,800 bbl/d	LA	CCR(Continuous Catalytic Reformer)	U
05/15/20	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	03/23/20	06/07/20	13,000 bbl/d	LA	CCR(Continuous Catalytic Reformer)	U
05/15/20	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	03/23/20	06/07/20	8,560 bbl/d	LA	CCR(Continuous Catalytic Reformer)	U
05/15/20	CITGO Petroleum Corporation - Corpus Christi Refinery - West	U.S.A.	03/23/20	06/15/20	6,000 bbl/d	TX	Semiregen/Cyclic Reformer	U
05/15/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	03/27/20	06/15/20	15,000 bbl/d	TX	Semiregen/Cyclic Reformer	U
05/15/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	03/27/20	06/15/20	13,000 bbl/d	TX	Semiregen/Cyclic Reformer	U
05/15/20	Marathon Petroleum Corporation - Texas City Refinery	U.S.A.	03/27/20	06/15/20	2,000 bbl/d	TX	Semiregen/Cyclic Reformer	U

Barrels Off-line from 6/3/2020 to 11/30/2020



Print Date: 6/3/2020

### USA PADD 3

05/15/20	CITGO Petroleum Corporation - Corpus Christi Refinery-East	U.S.A.	04/07/20	06/15/20	4,000 bbl/d	TX	CCR(Continuous Catalytic Reformer)	U
05/14/20	Flint Hills Resources Limited Partnership - Corpus Christi Refinery - West	U.S.A.	04/06/20	06/15/20	11,600 bbl/d	TX	CCR(Continuous Catalytic Reformer)	U
05/14/20	Marathon Petroleum Corporation - Gallup Refinery	U.S.A.	04/14/20	06/15/20	8,000 bbl/d	NM	Semiregen/Cyclic Reformer	U
05/13/20	Chevron Corporation - Pasadena Refinery	U.S.A.	04/06/20	06/20/20	24,000 bbl/d	TX	CCR(Continuous Catalytic Reformer)	U
05/11/20	WRB Refining LP - Borger Refinery	U.S.A.	03/27/20	06/15/20	4,000 bbl/d	TX	Semiregen/Cyclic Reformer	U
<b>FCCU: Daily Off-Line Capacity: 105,545 bbl/d</b>			<b>Total Off-line: 19,103,700</b>			<b>Date Range: 6/3/2020 - 11/30/2020</b>		
06/03/20	Valero Refining Company - Port Arthur Refinery	U.S.A.	03/27/20	07/15/20	18,750 bbl/d	TX	FCCU (Fluid Catalytic Cracker)	U
<b>CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020</b>								
06/03/20	Chalmette Refining LLC - Chalmette Refinery	U.S.A.	04/21/20	06/30/20	30,600 bbl/d	LA	FCCU (Fluid Catalytic Cracker)	U
<b>New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.</b>								
06/02/20	Shell Oil Products US - Norco Refinery	U.S.A.	03/31/20	07/31/20	22,400 bbl/d	LA	FCCU (Fluid Catalytic Cracker)	U
06/02/20	Shell Oil Products US - Convent Refinery	U.S.A.	03/31/20	07/31/20	18,400 bbl/d	LA	FCCU (Fluid Catalytic Cracker)	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/23/20	06/12/20	22,000 bbl/d	LA	FCCU (Fluid Catalytic Cracker)	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	05/07/20	06/12/20	110,000 bbl/d	LA	FCCU (Fluid Catalytic Cracker)	U
05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	03/23/20	06/15/20	25,000 bbl/d	TX	FCCU (Fluid Catalytic Cracker)	U
05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	03/29/20	06/15/20	90,000 bbl/d	TX	FCCU (Fluid Catalytic Cracker)	U
05/29/20	Valero Refining Company - Texas City Refinery	U.S.A.	03/30/20	06/15/20	13,200 bbl/d	TX	FCCU (Fluid Catalytic Cracker)	U
05/29/20	Valero Refining Company - Three Rivers Refinery	U.S.A.	03/30/20	06/15/20	3,600 bbl/d	TX	FCCU (Fluid Catalytic Cracker)	U

Barrels Off-line from 6/3/2020 to 11/30/2020





### USA PADD 3

05/29/20	ExxonMobil Corporation - Beaumont Refinery	U.S.A.	05/15/20	06/15/20	24,000 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/27/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/23/20	06/30/20	10,000 bbl/d	LA FCCU (Fluid Catalytic Cracker)	U
05/27/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/23/20	06/30/20	10,000 bbl/d	LA FCCU (Fluid Catalytic Cracker)	U
05/27/20	Valero Refining Company - McKee Refinery	U.S.A.	03/30/20	06/15/20	16,500 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/27/20	Valero Refining Company - Saint Charles Refinery	U.S.A.	03/31/20	06/15/20	92,000 bbl/d	LA FCCU (Fluid Catalytic Cracker)	U
05/27/20	Phillips 66 - Alliance Refinery	U.S.A.	05/09/20	06/15/20	24,000 bbl/d	LA FCCU (Fluid Catalytic Cracker)	U
05/27/20	Phillips 66 - Lake Charles Refinery	U.S.A.	05/12/20	06/22/20	9,240 bbl/d	LA FCCU (Fluid Catalytic Cracker)	U
05/26/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/30/20	06/15/20	50,000 bbl/d	LA FCCU (Fluid Catalytic Cracker)	U
05/21/20	Navajo Refining Company Limited Partnership - Navajo Refinery	U.S.A.	03/25/20	06/15/20	7,500 bbl/d	NM FCCU (Fluid Catalytic Cracker)	U
05/18/20	Phillips 66 - Sweeny Refinery	U.S.A.	05/18/20	06/15/20	15,600 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/15/20	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	03/23/20	06/07/20	26,800 bbl/d	LA FCCU (Fluid Catalytic Cracker)	U
05/15/20	CITGO Petroleum Corporation - Corpus Christi Refinery-East	U.S.A.	03/23/20	06/15/20	2,600 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/15/20	Marathon Petroleum Corporation - Texas City Refinery	U.S.A.	03/27/20	06/15/20	12,000 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/15/20	CITGO Petroleum Corporation - Corpus Christi Refinery-East	U.S.A.	04/02/20	06/15/20	13,800 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/15/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	04/14/20	06/15/20	28,000 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/14/20	Valero Refining Company - Houston Refinery	U.S.A.	03/30/20	06/15/20	9,750 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 3

05/14/20	Flint Hills Resources Limited Partnership - Corpus Christi Refinery - West	U.S.A.	04/06/20	06/15/20	11,000 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/14/20	Marathon Petroleum Corporation - Gallup Refinery	U.S.A.	04/14/20	06/15/20	8,500 bbl/d	NM FCCU (Fluid Catalytic Cracker)	U
05/14/20	Flint Hills Resources Limited Partnership - Corpus Christi Refinery - East	U.S.A.	05/01/20	06/15/20	9,000 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/13/20	Chevron Corporation - Pasadena Refinery	U.S.A.	04/12/20	06/20/20	56,000 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/11/20	WRB Refining LP - Borger Refinery	U.S.A.	03/27/20	06/15/20	6,000 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/11/20	WRB Refining LP - Borger Refinery	U.S.A.	04/01/20	06/15/20	30,000 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
05/04/20	Phillips 66 - Sweeny Refinery	U.S.A.	04/24/20	03/05/21	30,000 bbl/d	TX FCCU (Fluid Catalytic Cracker)	U
<b>Coker: Daily Off-Line Capacity: 65,131 bbl/d</b>		<b>Total Off-line: 3,842,750</b>		<b>Date Range: 6/3/2020 - 7/31/2020</b>			
06/03/20	Valero Refining Company - Port Arthur Refinery	U.S.A.	03/27/20	07/15/20	25,000 bbl/d	TX Delayed Coker	U
CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020							
06/03/20	Chalmette Refining LLC - Chalmette Refinery	U.S.A.	03/30/20	06/30/20	9,000 bbl/d	LA Delayed Coker	U
New Turnaround: Comments: Increasing staff, but still trying to follow guidelines associated with Covid-19 pandemic. They are still running reduced and right now, they don't think they will be ramping back up until closer to the end of the month.							
06/02/20	Shell Oil Products US - Norco Refinery	U.S.A.	06/03/20	07/31/20	5,000 bbl/d	LA Delayed Coker	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/23/20	06/12/20	6,400 bbl/d	LA Delayed Coker	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/23/20	06/12/20	6,400 bbl/d	LA Delayed Coker	U
06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/23/20	06/12/20	6,400 bbl/d	LA Delayed Coker	U
06/01/20	ExxonMobil Corporation - Beaumont Refinery	U.S.A.	05/30/20	06/15/20	9,000 bbl/d	TX Delayed Coker	U
05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	03/23/20	06/15/20	10,300 bbl/d	TX Delayed Coker	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 3

05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	03/23/20	06/15/20	8,400 bbl/d	TX Fluidized-Bed Coker	U
05/29/20	Valero Refining Company - Texas City Refinery	U.S.A.	03/30/20	06/15/20	7,950 bbl/d	TX Delayed Coker	U
05/28/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/23/20	06/15/20	6,800 bbl/d	LA Delayed Coker	U
05/27/20	Valero Refining Company - Saint Charles Refinery	U.S.A.	03/31/20	06/15/20	20,000 bbl/d	LA Delayed Coker	U
05/27/20	Phillips 66 - Alliance Refinery	U.S.A.	05/09/20	06/15/20	5,400 bbl/d	LA Delayed Coker	U
05/27/20	Phillips 66 - Lake Charles Refinery	U.S.A.	05/12/20	06/22/20	10,800 bbl/d	LA Delayed Coker	U
05/27/20	Phillips 66 - Lake Charles Refinery	U.S.A.	05/12/20	06/22/20	3,000 bbl/d	LA Delayed Coker	U
05/27/20	Phillips 66 - Lake Charles Refinery	U.S.A.	05/12/20	06/22/20	2,260 bbl/d	LA Thermal Cracker	U
05/21/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	04/06/20	06/06/20	60,000 bbl/d	LA Delayed Coker	
05/18/20	Phillips 66 - Sweeny Refinery	U.S.A.	03/23/20	06/15/20	16,800 bbl/d	TX Delayed Coker	U
05/15/20	CITGO Petroleum Corporation - Corpus Christi Refinery - West	U.S.A.	03/23/20	06/15/20	8,800 bbl/d	TX Delayed Coker	U
05/15/20	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	03/23/20	06/07/20	8,800 bbl/d	LA Delayed Coker	U
05/15/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	03/27/20	06/15/20	2,700 bbl/d	TX Delayed Coker	U
05/15/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	03/27/20	06/15/20	2,700 bbl/d	TX Delayed Coker	U
05/15/20	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	04/01/20	06/07/20	6,900 bbl/d	LA Delayed Coker	U
05/14/20	Flint Hills Resources Limited Partnership - Corpus Christi Refinery - West	U.S.A.	04/06/20	06/15/20	3,000 bbl/d	TX Delayed Coker	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 3

05/11/20	WRB Refining LP - Borger Refinery	U.S.A.	03/27/20	06/15/20	5,000 bbl/d	TX	Delayed Coker	U
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**Hydrocrackers:** Daily Off-Line Capacity: 93,854 bbl/d      Total Off-line: 13,045,750      Date Range: 6/3/2020 - 10/19/2020

06/03/20	Valero Refining Company - Port Arthur Refinery	U.S.A.	03/27/20	07/15/20	11,250 bbl/d	TX	Distillate Hydrocracker	U
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CHANGE: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.--PREVSTART: 3/27/2020--PREVEND: 6/15/2020

06/03/20	Valero Refining Company - Port Arthur Refinery	U.S.A.	05/12/20	07/15/20	57,000 bbl/d	TX	Distillate Hydrocracker	U
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CHANGE: Comments: Catalyst work required moved forward from June, 2020.--PREVSTART: 5/12/2020--PREVEND: 6/15/2020

06/02/20	Shell Oil Products US - Convent Refinery	U.S.A.	03/31/20	07/31/20	9,000 bbl/d	LA	Residual Hydrocracker	U
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06/02/20	Shell Oil Products US - Norco Refinery	U.S.A.	06/03/20	07/31/20	8,000 bbl/d	LA	Distillate Hydrocracker	U
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06/01/20	Valero Refining Company - Bill Greehey Refinery-East	U.S.A.	06/15/19	06/30/20	11,000 bbl/d	TX	Distillate Hydrocracker	U
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06/01/20	ExxonMobil Corporation - Baton Rouge Refinery	U.S.A.	03/30/20	06/12/20	4,600 bbl/d	LA	Distillate Hydrocracker	U
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06/01/20	Valero Refining Company - Three Rivers Refinery	U.S.A.	04/10/20	06/15/20	6,000 bbl/d	TX	Distillate Hydrocracker	U
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05/29/20	ExxonMobil Corporation - Beaumont Refinery	U.S.A.	03/23/20	06/15/20	13,000 bbl/d	TX	Distillate Hydrocracker	U
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05/29/20	ExxonMobil Corporation - Baytown Refinery	U.S.A.	03/23/20	06/15/20	5,000 bbl/d	TX	Distillate Hydrocracker	U
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05/29/20	Valero Refining Company - McKee Refinery	U.S.A.	05/29/20	06/15/20	30,000 bbl/d	TX	Distillate Hydrocracker	U
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05/27/20	Valero Refining Company - Saint Charles Refinery	U.S.A.	03/31/20	06/15/20	18,750 bbl/d	LA	Distillate Hydrocracker	U
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05/27/20	Valero Refining Company - Saint Charles Refinery	U.S.A.	03/31/20	06/15/20	14,250 bbl/d	LA	Distillate Hydrocracker	U
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05/27/20	Valero Refining Company - Meraux Refinery	U.S.A.	05/19/20	06/06/20	8,250 bbl/d	LA	Distillate Hydrocracker	U
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05/26/20	CITGO Petroleum Corporation - Lake Charles Refinery	U.S.A.	03/23/20	06/15/20	7,600 bbl/d	LA	Distillate Hydrocracker	U
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Barrels Off-line from 6/3/2020 to 11/30/2020



Print Date: 6/3/2020

### USA PADD 3

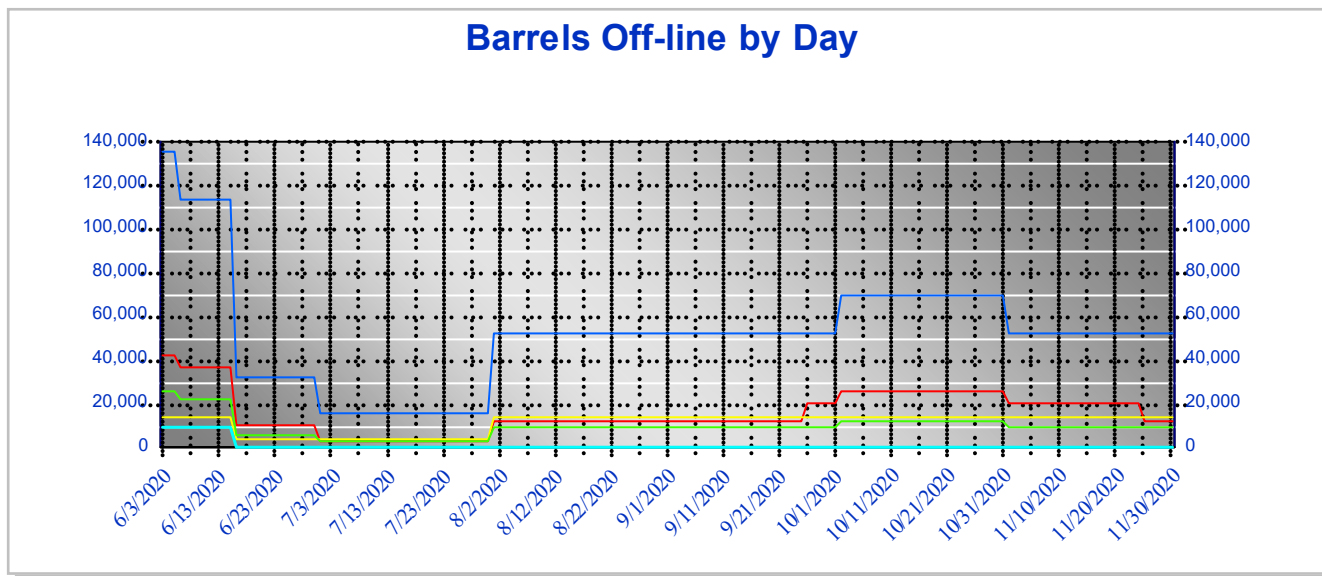
05/26/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	05/25/20	07/12/20	60,000 bbl/d	TX Residual Hydrocracker	
05/26/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	05/25/20	07/12/20	60,000 bbl/d	TX Distillate Hydrocracker	
05/21/20	Navajo Refining Company Limited Partnership - Navajo Refinery	U.S.A.	03/25/20	06/15/20	4,500 bbl/d	NM Distillate Hydrocracker	U
05/15/20	Marathon Petroleum Corporation - Galveston Bay Refinery (GBR)	U.S.A.	03/27/20	06/15/20	12,000 bbl/d	TX Residual Hydrocracker	U
05/15/20	Marathon Petroleum Corporation - Garyville Refinery	U.S.A.	04/06/20	06/07/20	22,000 bbl/d	LA Distillate Hydrocracker	U
05/14/20	Valero Refining Company - Houston Refinery	U.S.A.	03/30/20	06/15/20	7,500 bbl/d	TX Distillate Hydrocracker	U
05/14/20	Flint Hills Resources Limited Partnership - Corpus Christi Refinery - West	U.S.A.	04/06/20	06/15/20	6,000 bbl/d	TX Distillate Hydrocracker	U
05/14/20	Flint Hills Resources Limited Partnership - Corpus Christi Refinery - East	U.S.A.	04/06/20	06/15/20	2,400 bbl/d	TX Distillate Hydrocracker	U
05/12/20	Valero Refining Company - Port Arthur Refinery	U.S.A.	09/02/20	10/19/20	45,000 bbl/d	TX Distillate Hydrocracker	

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 4

Crude      FCCU      Coker      Reformer      Hydro Cracking



Crude Distillation: Daily Off-Line Capacity: 51,952 bbl/d

Total Off-line: 9,403,340

Date Range: 6/3/2020 - 11/30/2020

06/02/20	HollyFrontier Corporation - Cheyenne Refinery	U.S.A.	03/25/20	07/31/20	15,600 bbl/d	WY Atmospheric Distillation	U
New Turnaround: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.							
06/02/20	Sinclair Oil Corporation - Casper Refinery	U.S.A.	04/01/20	06/15/20	5,000 bbl/d	WY Atmospheric Distillation	U
New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.							
06/02/20	Silver Eagle Refining Incorporated - Evanston Refinery	U.S.A.	04/21/20	07/15/20	680 bbl/d	WY Atmospheric Distillation	U
New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.							
06/02/20	HollyFrontier Corporation - Cheyenne Refinery	U.S.A.	08/01/20	03/15/22	52,000 bbl/d	WY Atmospheric Distillation	U
New Turnaround: Comments: due to conversion of the facility into a Renewable Diesel plant							
05/27/20	ExxonMobil Corporation - Billings Refinery	U.S.A.	03/23/20	06/15/20	11,600 bbl/d	MT Atmospheric Distillation	U
05/27/20	Suncor Energy Incorporated - Denver Refinery - Plant 1 (West)	U.S.A.	03/27/20	06/05/20	6,400 bbl/d	CO Atmospheric Distillation	U
05/27/20	Suncor Energy Incorporated - Denver Refinery - Plant 2 (East)	U.S.A.	04/13/20	06/05/20	7,600 bbl/d	CO Atmospheric Distillation	U
05/27/20	Suncor Energy Incorporated - Denver Refinery - Plant 2 (East)	U.S.A.	04/13/20	06/05/20	7,600 bbl/d	CO Atmospheric Distillation	U
05/22/20	Phillips 66 - Billings Refinery	U.S.A.	03/23/20	06/15/20	7,000 bbl/d	MT Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 4

05/22/20	Phillips 66 - Billings Refinery	U.S.A.	03/23/20	06/15/20	4,000 bbl/d	MT Atmospheric Distillation	U
05/22/20	Big West Oil LLC - North Salt Lake Refinery	U.S.A.	04/16/20	06/15/20	9,300 bbl/d	UT Atmospheric Distillation	U
05/21/20	Sinclair Oil Corporation - Sinclair Refinery	U.S.A.	04/01/20	06/15/20	12,400 bbl/d	WY Atmospheric Distillation	U
05/21/20	Sinclair Oil Corporation - Sinclair Refinery	U.S.A.	04/01/20	06/15/20	5,600 bbl/d	WY Atmospheric Distillation	U
05/15/20	HollyFrontier Corporation - Woods Cross Refinery	U.S.A.	03/25/20	06/15/20	9,000 bbl/d	UT Atmospheric Distillation	U
05/15/20	HollyFrontier Corporation - Woods Cross Refinery	U.S.A.	03/25/20	06/15/20	4,500 bbl/d	UT Atmospheric Distillation	U
05/15/20	Marathon Petroleum Corporation - Salt Lake City Refinery	U.S.A.	04/03/20	06/30/20	16,000 bbl/d	UT Atmospheric Distillation	U
05/15/20	Chevron Corporation - Salt Lake City Refinery	U.S.A.	04/20/20	06/15/20	10,400 bbl/d	UT Atmospheric Distillation	U
05/15/20	Silver Eagle Refining Incorporated - Woods Cross Refinery	U.S.A.	04/24/20	06/15/20	2,500 bbl/d	UT Atmospheric Distillation	U
04/21/20	Wyoming Refining Company - Newcastle Refinery	U.S.A.	10/02/20	10/31/20	18,000 bbl/d	WY Atmospheric Distillation	
<b>Reformers: Daily Off-Line Capacity: 9,445 bbl/d</b>		<b>Total Off-line: 1,709,480</b>		<b>Date Range: 6/3/2020 - 11/30/2020</b>			
06/02/20	HollyFrontier Corporation - Cheyenne Refinery	U.S.A.	03/25/20	07/31/20	2,760 bbl/d	WY Semiregen/Cyclic Reformer	U
New Turnaround: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.							
06/02/20	Sinclair Oil Corporation - Casper Refinery	U.S.A.	04/01/20	06/15/20	1,500 bbl/d	WY Semiregen/Cyclic Reformer	U
New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.							
06/02/20	Silver Eagle Refining Incorporated - Evanston Refinery	U.S.A.	04/21/20	07/15/20	600 bbl/d	WY Semiregen/Cyclic Reformer	U
New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.							
06/02/20	HollyFrontier Corporation - Cheyenne Refinery	U.S.A.	08/01/20	03/15/22	9,200 bbl/d	WY Semiregen/Cyclic Reformer	
New Turnaround: Comments: due to conversion of the facility into a Renewable Diesel plant							
05/27/20	ExxonMobil Corporation - Billings Refinery	U.S.A.	03/23/20	06/15/20	2,000 bbl/d	MT Semiregen/Cyclic Reformer	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 4

05/27/20	Suncor Energy Incorporated - Denver Refinery - Plant 1 (West)	U.S.A.	03/27/20	06/05/20	2,000 bbl/d	CO Semiregen/Cyclic Reformer	U
05/27/20	Suncor Energy Incorporated - Denver Refinery - Plant 2 (East)	U.S.A.	04/13/20	06/05/20	2,000 bbl/d	CO Semiregen/Cyclic Reformer	U
05/22/20	Phillips 66 - Billings Refinery	U.S.A.	03/23/20	06/15/20	2,440 bbl/d	MT Semiregen/Cyclic Reformer	U
05/22/20	Big West Oil LLC - North Salt Lake Refinery	U.S.A.	04/16/20	06/15/20	3,000 bbl/d	UT CCR(Continuous Catalytic Reformer)	U
05/21/20	Sinclair Oil Corporation - Sinclair Refinery	U.S.A.	04/01/20	06/15/20	2,500 bbl/d	WY Semiregen/Cyclic Reformer	U
05/15/20	HollyFrontier Corporation - Woods Cross Refinery	U.S.A.	03/25/20	06/15/20	2,400 bbl/d	UT Semiregen/Cyclic Reformer	U
05/15/20	Marathon Petroleum Corporation - Salt Lake City Refinery	U.S.A.	04/03/20	06/30/20	3,000 bbl/d	UT Semiregen/Cyclic Reformer	U
05/15/20	Chevron Corporation - Salt Lake City Refinery	U.S.A.	04/20/20	06/15/20	1,600 bbl/d	UT Semiregen/Cyclic Reformer	U
05/15/20	Silver Eagle Refining Incorporated - Woods Cross Refinery	U.S.A.	04/24/20	06/15/20	440 bbl/d	UT Semiregen/Cyclic Reformer	U
04/21/20	Wyoming Refining Company - Newcastle Refinery	U.S.A.	10/02/20	10/31/20	3,200 bbl/d	WY Semiregen/Cyclic Reformer	U
<b>FCCU: Daily Off-Line Capacity: 16,137 bbl/d</b>			<b>Total Off-line: 2,920,810</b>		<b>Date Range: 6/3/2020 - 11/30/2020</b>		
06/02/20	HollyFrontier Corporation - Cheyenne Refinery	U.S.A.	03/25/20	07/31/20	3,600 bbl/d	WY FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.							
06/02/20	Sinclair Oil Corporation - Casper Refinery	U.S.A.	04/01/20	06/15/20	2,600 bbl/d	WY FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: COVID-19 Rate reduction continues. Will reevaluate as demand increases.							
06/02/20	HollyFrontier Corporation - Cheyenne Refinery	U.S.A.	08/01/20	03/15/22	12,000 bbl/d	WY FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: due to conversion of the facility into a Renewable Diesel plant							
05/27/20	ExxonMobil Corporation - Billings Refinery	U.S.A.	03/23/20	06/15/20	4,200 bbl/d	MT FCCU (Fluid Catalytic Cracker)	U
05/27/20	Suncor Energy Incorporated - Denver Refinery - Plant 1 (West)	U.S.A.	03/27/20	06/05/20	3,800 bbl/d	CO FCCU (Fluid Catalytic Cracker)	U

Barrels Off-line from 6/3/2020 to 11/30/2020





Print Date: 6/3/2020

### USA PADD 4

05/27/20	Suncor Energy Incorporated - Denver Refinery - Plant 2 (East)	U.S.A.	04/13/20	06/05/20	1,700 bbl/d	CO FCCU (Fluid Catalytic Cracker)	U
05/22/20	Phillips 66 - Billings Refinery	U.S.A.	03/23/20	06/15/20	4,000 bbl/d	MT FCCU (Fluid Catalytic Cracker)	U
05/22/20	Big West Oil LLC - North Salt Lake Refinery	U.S.A.	04/16/20	06/15/20	3,450 bbl/d	UT FCCU (Fluid Catalytic Cracker)	U
05/21/20	Sinclair Oil Corporation - Sinclair Refinery	U.S.A.	04/01/20	06/15/20	4,400 bbl/d	WY FCCU (Fluid Catalytic Cracker)	U
05/15/20	HollyFrontier Corporation - Woods Cross Refinery	U.S.A.	03/25/20	06/15/20	2,670 bbl/d	UT FCCU (Fluid Catalytic Cracker)	U
05/15/20	HollyFrontier Corporation - Woods Cross Refinery	U.S.A.	03/25/20	06/15/20	2,550 bbl/d	UT FCCU (Fluid Catalytic Cracker)	U
05/15/20	Marathon Petroleum Corporation - Salt Lake City Refinery	U.S.A.	04/03/20	06/30/20	6,600 bbl/d	UT FCCU (Fluid Catalytic Cracker)	U
05/15/20	Chevron Corporation - Salt Lake City Refinery	U.S.A.	04/20/20	06/15/20	2,600 bbl/d	UT FCCU (Fluid Catalytic Cracker)	U
04/21/20	Wyoming Refining Company - Newcastle Refinery	U.S.A.	10/02/20	10/31/20	5,500 bbl/d	WY FCCU (Fluid Catalytic Cracker)	U
12/27/19	HollyFrontier Corporation - Woods Cross Refinery	U.S.A.	09/26/20	11/24/20	8,900 bbl/d	UT FCCU (Fluid Catalytic Cracker)	U

**Coker: Daily Off-Line Capacity: 11,898 bbl/d**

**Total Off-line: 2,153,570**

**Date Range: 6/3/2020 - 11/30/2020**

06/02/20	HollyFrontier Corporation - Cheyenne Refinery	U.S.A.	03/25/20	07/31/20	4,350 bbl/d	WY Delayed Coker	U
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**New Turnaround: Comments: The end dates for production rate curtailments (COVID-19) have been extended due to the uncertainty of forward looking demand.**

06/02/20	HollyFrontier Corporation - Cheyenne Refinery	U.S.A.	08/01/20	03/15/22	14,500 bbl/d	WY Delayed Coker	U
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**New Turnaround: Comments: due to conversion of the facility into a Renewable Diesel plant**

05/27/20	ExxonMobil Corporation - Billings Refinery	U.S.A.	03/23/20	06/15/20	2,000 bbl/d	MT Fluidized-Bed Coker	U
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05/22/20	Phillips 66 - Billings Refinery	U.S.A.	03/23/20	06/15/20	3,200 bbl/d	MT Delayed Coker	U
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05/21/20	Sinclair Oil Corporation - Sinclair Refinery	U.S.A.	04/01/20	06/15/20	3,200 bbl/d	WY Delayed Coker	U
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05/15/20	Chevron Corporation - Salt Lake City Refinery	U.S.A.	04/20/20	06/15/20	1,440 bbl/d	UT Delayed Coker	U
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Barrels Off-line from 6/3/2020 to 11/30/2020



Print Date: 6/3/2020

**USA PADD 4**

Hydrocrackers: Daily Off-Line Capacity: 9,580 bbl/d

Total Off-line: 124,540

Date Range: 6/3/2020 - 6/15/2020

05/27/20	ExxonMobil Corporation - Billings Refinery	U.S.A.	03/23/20	06/15/20	980 bbl/d	MT Distillate Hydrocracker	U
05/21/20	Sinclair Oil Corporation - Sinclair Refinery	U.S.A.	04/01/20	06/15/20	3,100 bbl/d	WY Distillate Hydrocracker	U
05/15/20	HollyFrontier Corporation - Woods Cross Refinery	U.S.A.	03/25/20	06/15/20	4,500 bbl/d	UT Distillate Hydrocracker	U
05/15/20	Silver Eagle Refining Incorporated - Woods Cross Refinery	U.S.A.	04/24/20	06/15/20	1,000 bbl/d	UT Distillate Hydrocracker	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 5

Crude

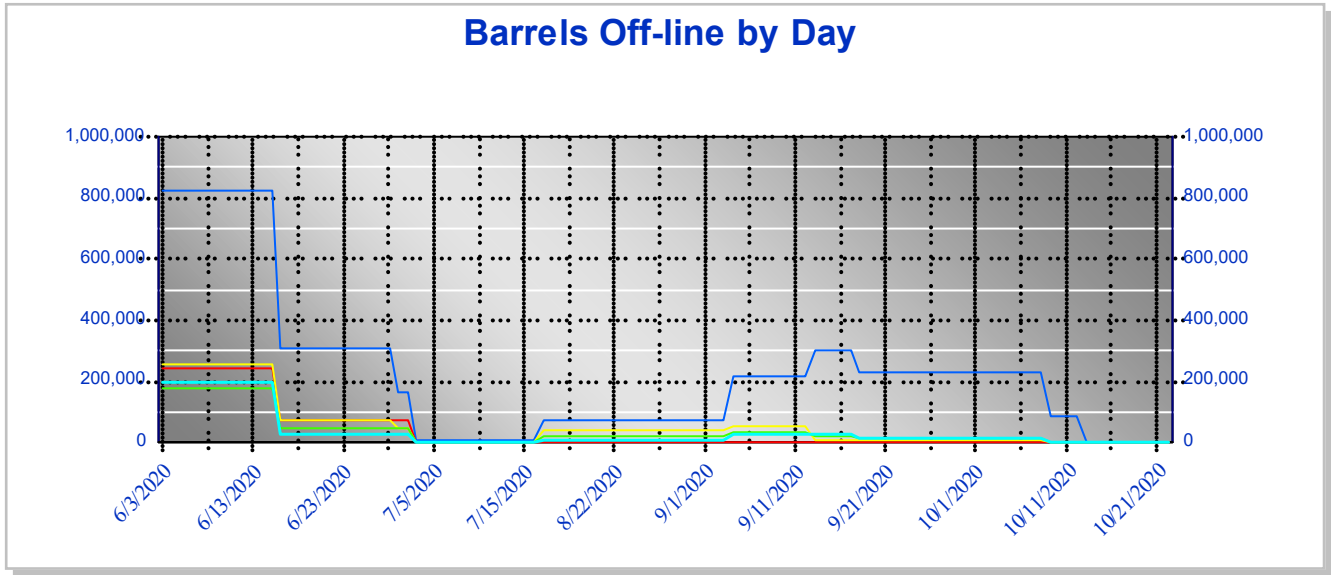
FCCU

Coker

Reformer

Hydro Cracking

### Barrels Off-line by Day



Crude Distillation: Daily Off-Line Capacity: 179,127 bbl/d

Total Off-line: 25,436,100

Date Range: 6/3/2020 - 10/22/2020

06/02/20	Phillips 66 - Santa Maria Refinery	U.S.A.	03/27/20	06/15/20	4,500 bbl/d	CA Atmospheric Distillation	U
06/02/20	Phillips 66 - Santa Maria Refinery	U.S.A.	03/27/20	06/15/20	4,500 bbl/d	CA Atmospheric Distillation	U
06/01/20	Phillips 66 - Los Angeles Refinery - Carson	U.S.A.	03/17/20	06/15/20	26,600 bbl/d	CA Atmospheric Distillation	U
06/01/20	Par Hawaii Refining LLC - Kapolei Refinery	U.S.A.	03/25/20	06/15/20	18,800 bbl/d	HI Atmospheric Distillation	U
06/01/20	Par Hawaii Refining LLC - Kapolei Refinery	U.S.A.	03/25/20	06/15/20	10,800 bbl/d	HI Atmospheric Distillation	U
06/01/20	Valero Refining Company - Benicia Refinery	U.S.A.	04/01/20	06/15/20	28,800 bbl/d	CA Atmospheric Distillation	U
06/01/20	Shell Oil Products US - Puget Sound Refinery	U.S.A.	06/01/20	06/28/20	144,000 bbl/d	WA Atmospheric Distillation	
05/28/20	Chevron Corporation - Richmond Refinery	U.S.A.	03/27/20	06/15/20	48,000 bbl/d	CA Atmospheric Distillation	U
05/28/20	Martinez Refining Company LLC - Martinez Refinery	U.S.A.	03/30/20	06/15/20	46,500 bbl/d	CA Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



Print Date: 6/3/2020

### USA PADD 5

05/28/20	Torrance Refining Company LLC - Torrance Refinery	U.S.A.	03/30/20	06/15/20	46,500 bbl/d	CA Atmospheric Distillation	U
05/28/20	Marathon Petroleum Corporation - Martinez Refinery	U.S.A.	04/23/20	06/30/20	105,000 bbl/d	CA Atmospheric Distillation	U
05/28/20	Marathon Petroleum Corporation - Martinez Refinery	U.S.A.	04/27/20	06/30/20	62,000 bbl/d	CA Atmospheric Distillation	U
05/27/20	Phillips 66 - Rodeo Refinery	U.S.A.	03/27/20	06/15/20	10,000 bbl/d	CA Atmospheric Distillation	U
05/27/20	Phillips 66 - Rodeo Refinery	U.S.A.	03/27/20	06/15/20	6,400 bbl/d	CA Atmospheric Distillation	U
05/27/20	Valero Refining Company - Wilmington Refinery	U.S.A.	04/02/20	06/15/20	20,000 bbl/d	CA Atmospheric Distillation	U
05/27/20	Valero Refining Company - Wilmington Refinery	U.S.A.	04/02/20	06/15/20	20,000 bbl/d	CA Atmospheric Distillation	U
05/27/20	Chevron Corporation - El Segundo Refinery	U.S.A.	05/26/20	06/15/20	34,000 bbl/d	CA Atmospheric Distillation	U
05/26/20	Chevron Corporation - El Segundo Refinery	U.S.A.	03/27/20	06/15/20	18,000 bbl/d	CA Atmospheric Distillation	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Carson Refinery	U.S.A.	03/30/20	06/15/20	33,200 bbl/d	CA Atmospheric Distillation	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Wilmington Refinery	U.S.A.	04/26/20	06/15/20	20,700 bbl/d	CA Atmospheric Distillation	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Carson Refinery	U.S.A.	05/01/20	06/15/20	7,000 bbl/d	CA Atmospheric Distillation	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Carson Refinery	U.S.A.	05/08/20	06/15/20	12,000 bbl/d	CA Atmospheric Distillation	U
05/13/20	Marathon Petroleum Corporation - Kenai Refinery	U.S.A.	03/27/20	06/15/20	14,400 bbl/d	AK Atmospheric Distillation	U
05/13/20	Marathon Petroleum Corporation - Kenai Refinery	U.S.A.	08/14/20	09/17/20	72,000 bbl/d	AK Atmospheric Distillation	U
05/01/20	Phillips 66 - Ferndale Refinery	U.S.A.	03/24/20	06/15/20	20,000 bbl/d	WA Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



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05/01/20	BP Products North America Incorporated - Cherry Point Refinery	U.S.A.	04/03/20	06/15/20	39,000 bbl/d	WA Atmospheric Distillation	U
05/01/20	Marathon Petroleum Corporation - Anacortes Refinery	U.S.A.	04/07/20	06/15/20	24,000 bbl/d	WA Atmospheric Distillation	U
04/06/20	Par Hawaii Refining LLC - Kapolei Refinery	U.S.A.	09/04/20	10/08/20	94,000 bbl/d	HI Atmospheric Distillation	
04/06/20	Par Hawaii Refining LLC - Kapolei Refinery	U.S.A.	09/04/20	10/08/20	54,000 bbl/d	HI Atmospheric Distillation	
12/19/19	Foreland Refining Corporation - Eagle Springs Refinery	U.S.A.	10/09/20	10/22/20	5,000 bbl/d	NV Atmospheric Distillation	
07/15/19	ConocoPhillips Alaska Incorporated - Kuparuk Crude Topping Refinery	U.S.A.	07/03/20	07/16/20	12,000 bbl/d	AK Atmospheric Distillation	
08/13/18	Valero Refining Company - Wilmington Refinery	U.S.A.	09/13/20	10/12/20	40,000 bbl/d	CA Atmospheric Distillation	
08/13/18	Valero Refining Company - Wilmington Refinery	U.S.A.	09/13/20	10/12/20	40,000 bbl/d	CA Atmospheric Distillation	
<b>Reformers: Daily Off-Line Capacity: 33,847 bbl/d</b>			<b>Total Off-line: 4,332,465</b>		<b>Date Range: 6/3/2020 - 10/8/2020</b>		
06/03/20	Phillips 66 - Los Angeles Refinery - Wilmington	U.S.A.	05/30/20	06/15/20	4,000 bbl/d	CA CCR(Continuous Catalytic Reformer)	U
06/01/20	Par Hawaii Refining LLC - Kapolei Refinery	U.S.A.	03/25/20	06/15/20	2,600 bbl/d	HI Semiregen/Cyclic Reformer	U
06/01/20	Valero Refining Company - Benicia Refinery	U.S.A.	04/01/20	06/15/20	8,000 bbl/d	CA Semiregen/Cyclic Reformer	U
06/01/20	Phillips 66 - Los Angeles Refinery - Wilmington	U.S.A.	05/25/20	06/15/20	20,000 bbl/d	CA CCR(Continuous Catalytic Reformer)	U
05/28/20	Phillips 66 - Los Angeles Refinery - Wilmington	U.S.A.	03/17/20	06/15/20	3,120 bbl/d	CA Semiregen/Cyclic Reformer	U
05/28/20	Chevron Corporation - Richmond Refinery	U.S.A.	03/27/20	06/15/20	8,000 bbl/d	CA Semiregen/Cyclic Reformer	U
05/28/20	Chevron Corporation - Richmond Refinery	U.S.A.	03/27/20	06/15/20	5,600 bbl/d	CA Semiregen/Cyclic Reformer	U
05/28/20	Torrance Refining Company LLC - Torrance Refinery	U.S.A.	03/30/20	06/30/20	13,500 bbl/d	CA Semiregen/Cyclic Reformer	U

Barrels Off-line from 6/3/2020 to 11/30/2020



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05/28/20	Martinez Refining Company LLC - Martinez Refinery	U.S.A.	03/30/20	06/15/20	8,850 bbl/d	CA Semiregen/Cyclic Reformer	U
05/28/20	Marathon Petroleum Corporation - Martinez Refinery	U.S.A.	04/26/20	06/30/20	23,000 bbl/d	CA CCR(Continuous Catalytic Reformer)	U
05/28/20	Marathon Petroleum Corporation - Martinez Refinery	U.S.A.	04/27/20	06/30/20	10,000 bbl/d	CA Semiregen/Cyclic Reformer	U
05/27/20	Phillips 66 - Rodeo Refinery	U.S.A.	03/27/20	06/15/20	18,000 bbl/d	CA Semiregen/Cyclic Reformer	U
05/27/20	Phillips 66 - Rodeo Refinery	U.S.A.	03/27/20	06/15/20	3,700 bbl/d	CA Semiregen/Cyclic Reformer	U
05/27/20	Valero Refining Company - Wilmington Refinery	U.S.A.	04/02/20	06/15/20	9,000 bbl/d	CA CCR(Continuous Catalytic Reformer)	U
05/26/20	Chevron Corporation - El Segundo Refinery	U.S.A.	03/27/20	06/15/20	12,000 bbl/d	CA CCR(Continuous Catalytic Reformer)	U
05/26/20	Marathon Petroleum Corporation - Los Angeles Carson Refinery	U.S.A.	05/25/20	06/15/20	4,000 bbl/d	CA Semiregen/Cyclic Reformer	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Wilmington Refinery	U.S.A.	04/21/20	06/15/20	2,600 bbl/d	CA Semiregen/Cyclic Reformer	U
05/13/20	Marathon Petroleum Corporation - Kenai Refinery	U.S.A.	03/27/20	06/15/20	2,400 bbl/d	AK Semiregen/Cyclic Reformer	U
05/13/20	Marathon Petroleum Corporation - Kenai Refinery	U.S.A.	08/14/20	09/17/20	12,000 bbl/d	AK Semiregen/Cyclic Reformer	U
05/01/20	Phillips 66 - Ferndale Refinery	U.S.A.	03/24/20	06/15/20	3,200 bbl/d	WA Semiregen/Cyclic Reformer	U
05/01/20	Shell Oil Products US - Puget Sound Refinery	U.S.A.	04/01/20	06/15/20	6,800 bbl/d	WA Semiregen/Cyclic Reformer	U
05/01/20	BP Products North America Incorporated - Cherry Point Refinery	U.S.A.	04/03/20	06/15/20	7,500 bbl/d	WA Semiregen/Cyclic Reformer	U
05/01/20	BP Products North America Incorporated - Cherry Point Refinery	U.S.A.	04/03/20	06/15/20	1,575 bbl/d	WA Semiregen/Cyclic Reformer	U
05/01/20	Marathon Petroleum Corporation - Anacortes Refinery	U.S.A.	04/07/20	06/15/20	4,860 bbl/d	WA Semiregen/Cyclic Reformer	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### USA PADD 5

04/06/20	Par Hawaii Refining LLC - Kapolei Refinery	U.S.A.	09/04/20	10/08/20	13,000 bbl/d	HI Semiregen/Cyclic Reformer	
03/19/20	Marathon Petroleum Corporation - Los Angeles Wilmington Refinery	U.S.A.	08/14/20	09/12/20	13,000 bbl/d	CA Semiregen/Cyclic Reformer	
<b>FCCU: Daily Off-Line Capacity: 151,604 bbl/d</b>		<b>Total Off-line: 4,244,900</b>		<b>Date Range: 6/3/2020 - 6/30/2020</b>			
06/02/20	Martinez Refining Company LLC - Martinez Refinery	U.S.A.	06/02/20	06/15/20	21,000 bbl/d	CA FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Reduced rates due to COVID-19 due to lack of demand.							
06/01/20	Valero Refining Company - Benicia Refinery	U.S.A.	04/01/20	06/15/20	15,400 bbl/d	CA FCCU (Fluid Catalytic Cracker)	U
05/28/20	Phillips 66 - Los Angeles Refinery - Wilmington	U.S.A.	03/17/20	06/15/20	10,000 bbl/d	CA FCCU (Fluid Catalytic Cracker)	U
05/28/20	Chevron Corporation - Richmond Refinery	U.S.A.	03/27/20	06/15/20	16,000 bbl/d	CA FCCU (Fluid Catalytic Cracker)	U
05/28/20	Torrance Refining Company LLC - Torrance Refinery	U.S.A.	03/30/20	06/15/20	30,000 bbl/d	CA FCCU (Fluid Catalytic Cracker)	U
05/28/20	Marathon Petroleum Corporation - Martinez Refinery	U.S.A.	04/26/20	06/30/20	73,000 bbl/d	CA FCCU (Fluid Catalytic Cracker)	U
05/27/20	Valero Refining Company - Wilmington Refinery	U.S.A.	04/02/20	06/15/20	27,000 bbl/d	CA FCCU (Fluid Catalytic Cracker)	U
05/26/20	Chevron Corporation - El Segundo Refinery	U.S.A.	03/27/20	06/15/20	14,500 bbl/d	CA FCCU (Fluid Catalytic Cracker)	U
05/01/20	Phillips 66 - Ferndale Refinery	U.S.A.	03/24/20	06/15/20	7,000 bbl/d	WA FCCU (Fluid Catalytic Cracker)	U
05/01/20	Shell Oil Products US - Puget Sound Refinery	U.S.A.	04/01/20	06/15/20	20,000 bbl/d	WA FCCU (Fluid Catalytic Cracker)	U
05/01/20	Marathon Petroleum Corporation - Anacortes Refinery	U.S.A.	04/07/20	06/15/20	8,400 bbl/d	WA FCCU (Fluid Catalytic Cracker)	U
<b>Coker: Daily Off-Line Capacity: 46,961 bbl/d</b>		<b>Total Off-line: 6,011,060</b>		<b>Date Range: 6/3/2020 - 10/8/2020</b>			
06/02/20	Phillips 66 - Santa Maria Refinery	U.S.A.	03/27/20	06/15/20	2,300 bbl/d	CA Delayed Coker	U
06/02/20	Phillips 66 - Santa Maria Refinery	U.S.A.	03/27/20	06/15/20	2,300 bbl/d	CA Delayed Coker	U

Barrels Off-line from 6/3/2020 to 11/30/2020



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06/01/20	Valero Refining Company - Benicia Refinery	U.S.A.	04/01/20	06/15/20	5,600 bbl/d	CA Fluidized-Bed Coker	U
06/01/20	Phillips 66 - Los Angeles Refinery - Carson	U.S.A.	05/14/20	06/15/20	10,600 bbl/d	CA Delayed Coker	U
06/01/20	Shell Oil Products US - Puget Sound Refinery	U.S.A.	05/31/20	06/28/20	24,000 bbl/d	WA Delayed Coker	
05/28/20	Torrance Refining Company LLC - Torrance Refinery	U.S.A.	03/30/20	06/15/20	8,100 bbl/d	CA Delayed Coker	U
05/28/20	Torrance Refining Company LLC - Torrance Refinery	U.S.A.	03/30/20	06/15/20	7,500 bbl/d	CA Delayed Coker	U
05/28/20	Martinez Refining Company LLC - Martinez Refinery	U.S.A.	03/30/20	06/15/20	6,270 bbl/d	CA Fluidized-Bed Coker	U
05/28/20	Marathon Petroleum Corporation - Martinez Refinery	U.S.A.	04/27/20	06/30/20	50,000 bbl/d	CA Delayed Coker	U
05/28/20	Martinez Refining Company LLC - Martinez Refinery	U.S.A.	04/30/20	06/15/20	6,600 bbl/d	CA Delayed Coker	U
05/27/20	Phillips 66 - Rodeo Refinery	U.S.A.	03/27/20	06/15/20	5,200 bbl/d	CA Delayed Coker	U
05/27/20	Valero Refining Company - Wilmington Refinery	U.S.A.	04/02/20	06/15/20	8,000 bbl/d	CA Delayed Coker	U
05/27/20	Valero Refining Company - Wilmington Refinery	U.S.A.	04/21/20	06/15/20	9,000 bbl/d	CA Delayed Coker	U
05/26/20	Chevron Corporation - El Segundo Refinery	U.S.A.	03/27/20	06/15/20	13,600 bbl/d	CA Delayed Coker	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Wilmington Refinery	U.S.A.	03/22/20	06/15/20	8,200 bbl/d	CA Delayed Coker	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Carson Refinery	U.S.A.	03/30/20	06/15/20	7,800 bbl/d	CA Delayed Coker	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Carson Refinery	U.S.A.	03/30/20	06/15/20	3,800 bbl/d	CA Delayed Coker	U
05/18/20	Chevron Corporation - El Segundo Refinery	U.S.A.	05/18/20	06/15/20	68,000 bbl/d	CA Delayed Coker	U

Barrels Off-line from 6/3/2020 to 11/30/2020





### USA PADD 5

05/01/20	BP Products North America Incorporated - Cherry Point Refinery	U.S.A.	04/03/20	06/15/20	8,250 bbl/d	WA Delayed Coker	U
04/06/20	Par Hawaii Refining LLC - Kapolei Refinery	U.S.A.	09/04/20	10/08/20	11,500 bbl/d	HI Visbreaker	
03/19/20	Marathon Petroleum Corporation - Los Angeles Wilmington Refinery	U.S.A.	08/14/20	09/12/20	41,000 bbl/d	CA Delayed Coker	
<b>Hydrocrackers: Daily Off-Line Capacity: 31,717 bbl/d</b>		<b>Total Off-line: 4,059,780</b>		<b>Date Range: 6/3/2020 - 10/8/2020</b>			
06/01/20	Par Hawaii Refining LLC - Kapolei Refinery	U.S.A.	03/25/20	06/15/20	3,600 bbl/d	HI Distillate Hydrocracker	U
06/01/20	Valero Refining Company - Benicia Refinery	U.S.A.	05/20/20	06/15/20	7,200 bbl/d	CA Distillate Hydrocracker	U
05/28/20	Chevron Corporation - Richmond Refinery	U.S.A.	03/27/20	06/15/20	12,000 bbl/d	CA Distillate Hydrocracker	U
05/28/20	Martinez Refining Company LLC - Martinez Refinery	U.S.A.	03/30/20	06/15/20	12,600 bbl/d	CA Distillate Hydrocracker	U
05/28/20	Torrance Refining Company LLC - Torrance Refinery	U.S.A.	03/30/20	06/15/20	7,200 bbl/d	CA Distillate Hydrocracker	U
05/28/20	Phillips 66 - Los Angeles Refinery - Wilmington	U.S.A.	04/01/20	06/15/20	27,500 bbl/d	CA Distillate Hydrocracker	U
05/28/20	Marathon Petroleum Corporation - Martinez Refinery	U.S.A.	04/26/20	06/30/20	30,000 bbl/d	CA Distillate Hydrocracker	U
05/27/20	Phillips 66 - Rodeo Refinery	U.S.A.	03/27/20	06/15/20	8,400 bbl/d	CA Distillate Hydrocracker	U
05/27/20	Phillips 66 - Rodeo Refinery	U.S.A.	03/27/20	06/15/20	4,600 bbl/d	CA Residual Hydrocracker	U
05/26/20	Chevron Corporation - El Segundo Refinery	U.S.A.	04/25/20	06/15/20	9,000 bbl/d	CA Distillate Hydrocracker	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Wilmington Refinery	U.S.A.	04/18/20	06/15/20	7,360 bbl/d	CA Distillate Hydrocracker	U
05/21/20	Marathon Petroleum Corporation - Los Angeles Carson Refinery	U.S.A.	05/21/20	06/15/20	8,600 bbl/d	CA Distillate Hydrocracker	
05/13/20	Marathon Petroleum Corporation - Kenai Refinery	U.S.A.	03/27/20	06/15/20	2,500 bbl/d	AK Distillate Hydrocracker	U

Barrels Off-line from 6/3/2020 to 11/30/2020



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05/13/20	Marathon Petroleum Corporation - Kenai Refinery	U.S.A.	08/14/20	09/17/20	12,500 bbl/d	AK Distillate Hydrocracker	
05/01/20	BP Products North America Incorporated - Cherry Point Refinery	U.S.A.	04/03/20	06/15/20	55,000 bbl/d	WA Distillate Hydrocracker	U
04/06/20	Par Hawaii Refining LLC - Kapolei Refinery	U.S.A.	09/04/20	10/08/20	18,000 bbl/d	HI Distillate Hydrocracker	

Barrels Off-line from 6/3/2020 to 11/30/2020



### Canada

Crude

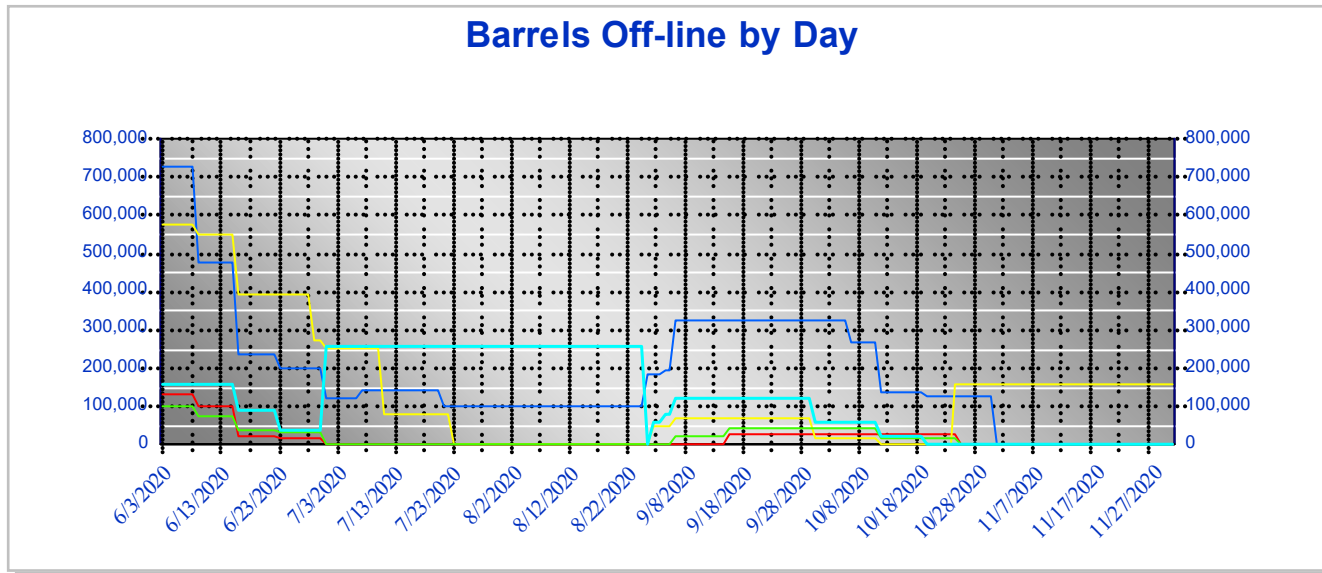
FCCU

Coker

Reformer

Hydro Cracking

### Barrels Off-line by Day



Crude Distillation: Daily Off-Line Capacity: 212,583 bbl/d

Total Off-line: 31,887,445

Date Range: 6/3/2020 - 10/30/2020

Date	Refinery	Country	Start Date	End Date	Capacity (bbl/d)	Unit	Distillation	Status
06/02/20	Shell Canada Limited - Scotford Upgrader	Canada	03/27/20	06/22/20	20,000 bbl/d	AB	Atmospheric Distillation	U
06/02/20	Imperial Oil Limited - Strathcona Refinery	Canada	04/14/20	06/30/20	32,500 bbl/d	AB	Atmospheric Distillation	U
06/02/20	Imperial Oil Limited - Strathcona Refinery	Canada	04/14/20	06/30/20	10,250 bbl/d	AB	Atmospheric Distillation	U
06/02/20	Imperial Oil Limited - Strathcona Refinery	Canada	04/14/20	06/30/20	5,000 bbl/d	AB	Atmospheric Distillation	U
06/02/20	Shell Canada Limited - Sarnia Refinery	Canada	04/16/20	06/22/20	10,500 bbl/d	ON	Atmospheric Distillation	U
06/02/20	Shell Canada Limited - Sarnia Refinery	Canada	04/16/20	06/22/20	8,750 bbl/d	ON	Atmospheric Distillation	U
05/29/20	Irving Oil Limited - Saint John Refinery	Canada	03/26/20	06/15/20	30,000 bbl/d	NB	Atmospheric Distillation	U
05/29/20	Irving Oil Limited - Saint John Refinery	Canada	03/26/20	06/15/20	30,000 bbl/d	NB	Atmospheric Distillation	U
05/29/20	Imperial Oil Limited - Nanticoke Refinery	Canada	04/15/20	06/15/20	28,000 bbl/d	ON	Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### Canada

05/28/20	Suncor Energy Incorporated - Montreal Refinery	Canada	05/22/20	06/15/20	26,000 bbl/d	PQ Atmospheric Distillation	U
05/28/20	Suncor Energy Incorporated - Montreal Refinery	Canada	05/22/20	06/15/20	26,000 bbl/d	PQ Atmospheric Distillation	U
05/26/20	Valero Energy Corporation - Jean Gaulin Refinery	Canada	03/24/20	06/08/20	85,000 bbl/d	PQ Atmospheric Distillation	U
05/26/20	Valero Energy Corporation - Jean Gaulin Refinery	Canada	03/24/20	06/08/20	47,500 bbl/d	PQ Atmospheric Distillation	U
05/22/20	Suncor Energy Incorporated - Edmonton Refinery	Canada	03/26/20	06/15/20	20,750 bbl/d	AB Atmospheric Distillation	U
05/22/20	Suncor Energy Incorporated - Edmonton Refinery	Canada	03/26/20	06/15/20	11,625 bbl/d	AB Atmospheric Distillation	U
05/15/20	Suncor Energy Incorporated - Sarnia Refinery	Canada	04/09/20	06/15/20	9,000 bbl/d	ON Atmospheric Distillation	U
05/15/20	Suncor Energy Incorporated - Sarnia Refinery	Canada	04/09/20	06/15/20	7,600 bbl/d	ON Atmospheric Distillation	U
05/15/20	Parkland Fuel Corporation - Burnaby Refinery	Canada	04/10/20	06/15/20	5,400 bbl/d	BC Atmospheric Distillation	U
05/15/20	Parkland Fuel Corporation - Burnaby Refinery	Canada	04/10/20	06/15/20	4,600 bbl/d	BC Atmospheric Distillation	U
05/15/20	Consumers' Co-Operative Refineries Limited - Regina Refinery	Canada	04/17/20	06/15/20	24,800 bbl/d	SK Atmospheric Distillation	U
05/15/20	Consumers' Co-Operative Refineries Limited - Regina Refinery	Canada	04/17/20	06/15/20	9,920 bbl/d	SK Atmospheric Distillation	U
05/15/20	Tidewater Midstream and Infrastructure - Prince George Refinery	Canada	04/22/20	06/15/20	4,070 bbl/d	BC Atmospheric Distillation	U
05/13/20	Imperial Oil Limited - Sarnia Refinery	Canada	04/02/20	06/08/20	120,000 bbl/d	ON Atmospheric Distillation	U
05/12/20	Gibson Energy Incorporated - Moose Jaw Asphalt Refinery	Canada	05/08/20	07/06/20	22,000 bbl/d	SK Atmospheric Distillation	U
04/24/20	Shell Canada Limited - Sarnia Refinery	Canada	07/07/20	07/20/20	42,000 bbl/d	ON Atmospheric Distillation	U

Barrels Off-line from 6/3/2020 to 11/30/2020



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### Canada

04/03/20	Shell Canada Limited - Scotford Upgrader	Canada	07/01/20	08/24/20	100,000 bbl/d	AB Atmospheric Distillation	
03/30/20	NARL Refining Limited Partnership - Come By Chance Refinery	Canada	03/25/20	06/30/20	130,000 bbl/d	NF Atmospheric Distillation	U
03/19/20	Imperial Oil Limited - Strathcona Refinery	Canada	09/01/20	10/30/20	130,000 bbl/d	AB Atmospheric Distillation	
03/19/20	Imperial Oil Limited - Nanticoke Refinery	Canada	09/01/20	10/05/20	56,000 bbl/d	ON Atmospheric Distillation	
03/02/20	NARL Refining Limited Partnership - Come By Chance Refinery	Canada	09/06/20	10/10/20	130,000 bbl/d	NF Atmospheric Distillation	
12/23/19	Suncor Energy Incorporated - Edmonton Refinery	Canada	09/04/20	10/18/20	8,300 bbl/d	AB Atmospheric Distillation	

Reformers: Daily Off-Line Capacity: 23,482 bbl/d

Total Off-line: 3,381,450

Date Range: 6/3/2020 - 10/24/2020

06/02/20	Imperial Oil Limited - Strathcona Refinery	Canada	04/14/20	06/30/20	5,750 bbl/d	AB Semiregen/Cyclic Reformer	U
06/02/20	Shell Canada Limited - Sarnia Refinery	Canada	04/16/20	06/22/20	5,250 bbl/d	ON Semiregen/Cyclic Reformer	U
05/29/20	Irving Oil Limited - Saint John Refinery	Canada	03/26/20	06/15/20	5,000 bbl/d	NB Semiregen/Cyclic Reformer	U
05/29/20	Imperial Oil Limited - Nanticoke Refinery	Canada	04/15/20	06/15/20	6,175 bbl/d	ON Semiregen/Cyclic Reformer	U
05/29/20	Suncor Energy Incorporated - Montreal Refinery	Canada	05/22/20	06/15/20	8,000 bbl/d	PQ Semiregen/Cyclic Reformer	U
05/29/20	Suncor Energy Incorporated - Montreal Refinery	Canada	05/22/20	06/15/20	4,800 bbl/d	PQ Semiregen/Cyclic Reformer	U
05/26/20	Valero Energy Corporation - Jean Gaulin Refinery	Canada	03/24/20	06/08/20	16,000 bbl/d	PQ CCR(Continuous Catalytic Reformer)	U
05/26/20	Valero Energy Corporation - Jean Gaulin Refinery	Canada	03/24/20	06/08/20	11,000 bbl/d	PQ Semiregen/Cyclic Reformer	U
05/22/20	Suncor Energy Incorporated - Edmonton Refinery	Canada	03/26/20	06/15/20	4,000 bbl/d	AB Semiregen/Cyclic Reformer	U
05/15/20	Suncor Energy Incorporated - Sarnia Refinery	Canada	04/09/20	06/15/20	4,400 bbl/d	ON Semiregen/Cyclic Reformer	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### Canada

05/15/20	Suncor Energy Incorporated - Sarnia Refinery	Canada	04/09/20	06/15/20	1,000 bbl/d	ON Semiregen/Cyclic Reformer	U
05/15/20	Parkland Fuel Corporation - Burnaby Refinery	Canada	04/10/20	06/15/20	2,000 bbl/d	BC Semiregen/Cyclic Reformer	U
05/15/20	Consumers' Co-Operative Refineries Limited - Regina Refinery	Canada	04/17/20	06/15/20	3,720 bbl/d	SK Semiregen/Cyclic Reformer	U
05/15/20	Tidewater Midstream and Infrastructure - Prince George Refinery	Canada	04/22/20	06/15/20	555 bbl/d	BC Semiregen/Cyclic Reformer	U
03/30/20	NARL Refining Limited Partnership - Come By Chance Refinery	Canada	03/25/20	06/30/20	26,000 bbl/d	NF Semiregen/Cyclic Reformer	U
03/04/20	Suncor Energy Incorporated - Montreal Refinery	Canada	09/15/20	10/24/20	20,000 bbl/d	PQ Semiregen/Cyclic Reformer	
03/02/20	NARL Refining Limited Partnership - Come By Chance Refinery	Canada	09/06/20	10/10/20	26,000 bbl/d	NF Semiregen/Cyclic Reformer	
<b>FCCU: Daily Off-Line Capacity: 20,878 bbl/d</b>			<b>Total Off-line: 3,006,425</b>		<b>Date Range: 6/3/2020 - 10/24/2020</b>		
06/02/20	Imperial Oil Limited - Strathcona Refinery	Canada	04/14/20	06/30/20	17,000 bbl/d	AB FCCU (Fluid Catalytic Cracker)	U
06/02/20	Shell Canada Limited - Sarnia Refinery	Canada	04/16/20	06/22/20	6,750 bbl/d	ON FCCU (Fluid Catalytic Cracker)	U
05/29/20	Irving Oil Limited - Saint John Refinery	Canada	03/26/20	06/15/20	14,800 bbl/d	NB FCCU (Fluid Catalytic Cracker)	U
05/29/20	Irving Oil Limited - Saint John Refinery	Canada	03/26/20	06/15/20	5,000 bbl/d	NB FCCU (Fluid Catalytic Cracker)	U
05/29/20	Imperial Oil Limited - Nanticoke Refinery	Canada	04/15/20	06/15/20	12,500 bbl/d	ON FCCU (Fluid Catalytic Cracker)	U
05/28/20	Suncor Energy Incorporated - Montreal Refinery	Canada	05/22/20	06/15/20	12,000 bbl/d	PQ FCCU (Fluid Catalytic Cracker)	U
05/26/20	Valero Energy Corporation - Jean Gaulin Refinery	Canada	03/24/20	06/08/20	33,000 bbl/d	PQ FCCU (Fluid Catalytic Cracker)	U
05/22/20	Suncor Energy Incorporated - Edmonton Refinery	Canada	03/26/20	06/15/20	9,250 bbl/d	AB FCCU (Fluid Catalytic Cracker)	U
05/15/20	Suncor Energy Incorporated - Sarnia Refinery	Canada	04/09/20	06/15/20	3,400 bbl/d	ON FCCU (Fluid Catalytic Cracker)	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### Canada

05/15/20	Parkland Fuel Corporation - Burnaby Refinery	Canada	04/10/20	06/15/20	3,600 bbl/d	BC FCCU (Fluid Catalytic Cracker)	U
05/15/20	Consumers' Co-Operative Refineries Limited - Regina Refinery	Canada	04/17/20	06/15/20	8,060 bbl/d	SK FCCU (Fluid Catalytic Cracker)	U
05/15/20	Consumers' Co-Operative Refineries Limited - Regina Refinery	Canada	04/17/20	06/15/20	6,820 bbl/d	SK FCCU (Fluid Catalytic Cracker)	U
05/15/20	Tidewater Midstream and Infrastructure - Prince George Refinery	Canada	04/22/20	06/15/20	1,295 bbl/d	BC FCCU (Fluid Catalytic Cracker)	U
03/04/20	Suncor Energy Incorporated - Montreal Refinery	Canada	09/15/20	10/24/20	30,000 bbl/d	PQ FCCU (Fluid Catalytic Cracker)	
<b>Coker: Daily Off-Line Capacity: 135,977 bbl/d</b>		<b>Total Off-line: 24,611,850</b>		<b>Date Range: 6/3/2020 - 11/30/2020</b>			
05/29/20	Irving Oil Limited - Saint John Refinery	Canada	03/26/20	06/15/20	4,000 bbl/d	NB Visbreaker	U
05/29/20	Syncrude Canada Limited - Mildred Lake Oil Sands Upgrader & Refinery	Canada	04/20/20	06/15/20	46,500 bbl/d	AB Fluidized-Bed Coker	U
05/29/20	Syncrude Canada Limited - Mildred Lake Oil Sands Upgrader & Refinery	Canada	04/20/20	06/15/20	45,000 bbl/d	AB Fluidized-Bed Coker	U
05/29/20	Syncrude Canada Limited - Mildred Lake Oil Sands Upgrader & Refinery	Canada	04/20/20	06/15/20	40,000 bbl/d	AB Fluidized-Bed Coker	U
05/22/20	Suncor Energy Incorporated - Edmonton Refinery	Canada	03/26/20	06/15/20	6,250 bbl/d	AB Delayed Coker	U
05/21/20	Suncor Energy Incorporated - Fort McMurray Upgrader	Canada	05/16/20	07/10/20	175,000 bbl/d	AB Delayed Coker	
05/15/20	Husky Oil Operations LTD - Lloydminster Upgrader	Canada	04/08/20	06/15/20	9,600 bbl/d	SK Delayed Coker	U
05/15/20	Consumers' Co-Operative Refineries Limited - Regina Refinery	Canada	04/17/20	06/15/20	3,100 bbl/d	SK Delayed Coker	U
05/13/20	Imperial Oil Limited - Sarnia Refinery	Canada	04/02/20	06/08/20	25,000 bbl/d	ON Fluidized-Bed Coker	
05/05/20	Canadian Natural Resources Limited - Fort McMurray Oil Sands Upgrader (Horizon Oil Sands)	Canada	05/25/20	06/28/20	120,000 bbl/d	AB Delayed Coker	
04/09/20	Husky Oil Operations LTD - Lloydminster Upgrader	Canada	09/02/20	09/29/20	48,000 bbl/d	SK Delayed Coker	

Barrels Off-line from 6/3/2020 to 11/30/2020



### Canada

03/30/20	NARL Refining Limited Partnership - Come By Chance Refinery	Canada	03/25/20	06/30/20	20,000 bbl/d	NF	Visbreaker	U
03/17/20	Syncrude Canada Limited - Mildred Lake Oil Sands Upgrader & Refinery	Canada	06/03/20	07/22/20	80,000 bbl/d	AB	Fluidized-Bed Coker	
03/02/20	NARL Refining Limited Partnership - Come By Chance Refinery	Canada	09/06/20	10/10/20	20,000 bbl/d	NF	Visbreaker	
12/12/19	Suncor Energy Incorporated - Fort McMurray Upgrader	Canada	10/24/20	12/12/20	160,000 bbl/d	AB	Delayed Coker	
<b>Hydrocrackers: Daily Off-Line Capacity: 154,504 bbl/d</b>			<b>Total Off-line: 21,321,600</b>			<b>Date Range: 6/3/2020 - 10/18/2020</b>		
06/02/20	Shell Canada Limited - Scotford Upgrader	Canada	03/27/20	06/22/20	16,000 bbl/d	AB	Residual Hydrocracker	U
06/02/20	Shell Canada Limited - Scotford Upgrader	Canada	03/27/20	06/22/20	16,000 bbl/d	AB	Residual Hydrocracker	U
06/02/20	Shell Canada Limited - Scotford Upgrader	Canada	03/27/20	06/22/20	10,000 bbl/d	AB	Residual Hydrocracker	U
06/02/20	Shell Canada Limited - Scotford Upgrader	Canada	03/27/20	06/22/20	10,000 bbl/d	AB	Residual Hydrocracker	U
06/02/20	Shell Canada Limited - Sarnia Refinery	Canada	04/16/20	06/22/20	1,675 bbl/d	ON	Distillate Hydrocracker	U
05/29/20	Syncrude Canada Limited - Mildred Lake Oil Sands Upgrader & Refinery	Canada	04/20/20	06/15/20	30,000 bbl/d	AB	Distillate Hydrocracker	U
05/29/20	Suncor Energy Incorporated - Montreal Refinery	Canada	05/22/20	06/15/20	8,000 bbl/d	PQ	Distillate Hydrocracker	U
05/22/20	Suncor Energy Incorporated - Edmonton Refinery	Canada	03/26/20	06/15/20	5,750 bbl/d	AB	Distillate Hydrocracker	U
05/22/20	Suncor Energy Incorporated - Edmonton Refinery	Canada	03/26/20	06/15/20	4,750 bbl/d	AB	Distillate Hydrocracker	U
05/15/20	Husky Oil Operations LTD - Lloydminster Upgrader	Canada	04/08/20	06/15/20	6,000 bbl/d	SK	Residual Hydrocracker	U
05/15/20	Husky Oil Operations LTD - Lloydminster Upgrader	Canada	04/08/20	06/15/20	5,800 bbl/d	SK	Residual Hydrocracker	U
05/15/20	Suncor Energy Incorporated - Sarnia Refinery	Canada	04/09/20	06/15/20	6,400 bbl/d	ON	Distillate Hydrocracker	U

Barrels Off-line from 6/3/2020 to 11/30/2020





### Canada

04/09/20	Husky Oil Operations LTD - Lloydminster Upgrader	Canada	09/02/20	09/29/20	30,000 bbl/d	SK Residual Hydrocracker	
04/09/20	Husky Oil Operations LTD - Lloydminster Upgrader	Canada	09/02/20	09/29/20	29,000 bbl/d	SK Residual Hydrocracker	
04/03/20	Shell Canada Limited - Scotford Upgrader	Canada	07/01/20	08/24/20	80,000 bbl/d	AB Residual Hydrocracker	
04/03/20	Shell Canada Limited - Scotford Upgrader	Canada	07/01/20	08/24/20	80,000 bbl/d	AB Residual Hydrocracker	
04/03/20	Shell Canada Limited - Scotford Upgrader	Canada	07/01/20	08/24/20	50,000 bbl/d	AB Residual Hydrocracker	
04/03/20	Shell Canada Limited - Scotford Upgrader	Canada	07/01/20	08/24/20	50,000 bbl/d	AB Residual Hydrocracker	
03/30/20	NARL Refining Limited Partnership - Come By Chance Refinery	Canada	03/25/20	06/30/20	38,000 bbl/d	NF Distillate Hydrocracker	U
03/02/20	NARL Refining Limited Partnership - Come By Chance Refinery	Canada	09/06/20	10/10/20	38,000 bbl/d	NF Distillate Hydrocracker	
12/23/19	Suncor Energy Incorporated - Edmonton Refinery	Canada	09/04/20	10/18/20	23,000 bbl/d	AB Distillate Hydrocracker	

Barrels Off-line from 6/3/2020 to 11/30/2020



### Mexico

Crude

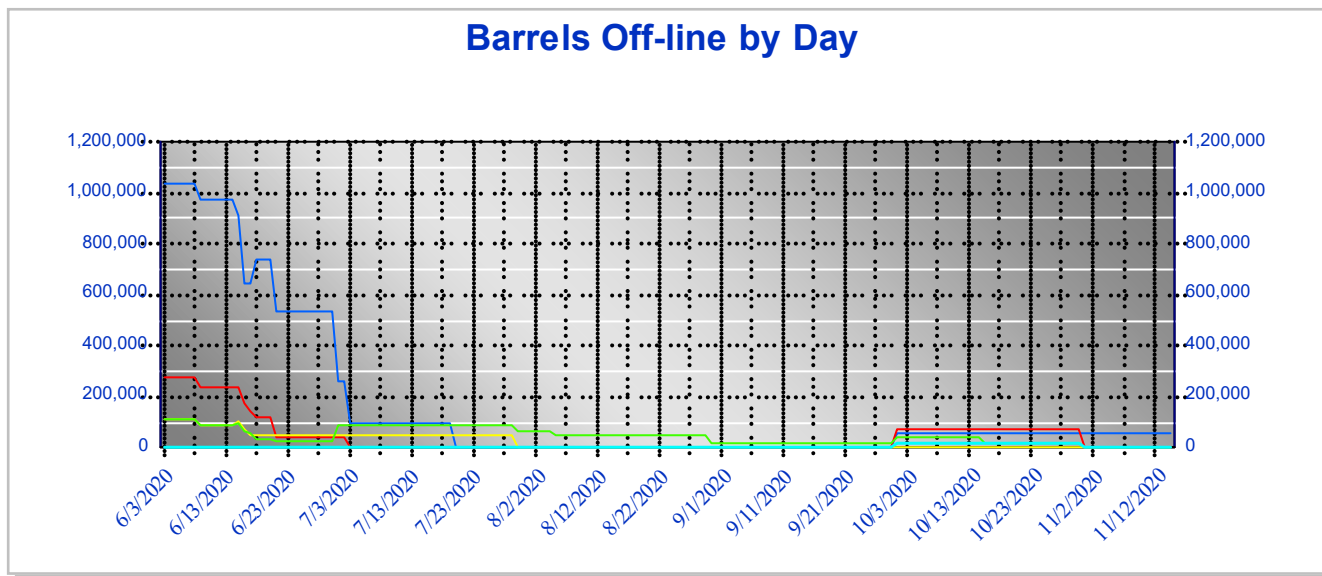
FCCU

Coker

Reformer

Hydro Cracking

### Barrels Off-line by Day



Crude Distillation: Daily Off-Line Capacity: 161,835 bbl/d

Total Off-line: 26,702,800

Date Range: 6/3/2020 - 11/14/2020

06/02/20	Pemex Transformacion Industrial - Refineria Francisco I Madero (Ciudad)	Mexico	06/01/20	06/30/20	75,350 bbl/d	TA Atmospheric Distillation	U
New Turnaround: Comments: Rate cut due to inventory controls related to Company finances.							
06/02/20	Pemex Transformacion Industrial - Refineria Francisco I Madero (Ciudad)	Mexico	06/01/20	06/30/20	16,000 bbl/d	TA Atmospheric Distillation	U
New Turnaround: Comments: Rate cut due to inventory controls related to Company finances.							
05/31/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	06/18/20	07/19/20	95,000 bbl/d	GT Atmospheric Distillation	
05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	02/17/20	06/14/20	61,750 bbl/d	GT Atmospheric Distillation	U
05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	04/06/20	06/15/20	39,000 bbl/d	GT Atmospheric Distillation	U
05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	04/06/20	06/15/20	31,200 bbl/d	GT Atmospheric Distillation	U
05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	04/06/20	06/15/20	26,000 bbl/d	GT Atmospheric Distillation	U
05/27/20	Pemex Transformacion Industrial - Refineria Miguel Hidalgo (Tula De Allende)	Mexico	11/01/19	07/02/20	165,000 bbl/d	HG Atmospheric Distillation	
05/27/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio Dovali Jaime (Salina Cruz)	Mexico	04/17/20	06/08/20	162,000 bbl/d	OA Atmospheric Distillation	

Barrels Off-line from 6/3/2020 to 11/30/2020



### Mexico

05/27/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio Dovali Jaime (Salina Cruz)	Mexico	05/25/20	06/30/20	89,650 bbl/d	OA Atmospheric Distillation	U
05/27/20	Pemex Transformacion Industrial - Refineria Miguel Hidalgo (Tula De Allende)	Mexico	05/26/20	06/20/20	36,000 bbl/d	HG Atmospheric Distillation	U
05/27/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio Dovali Jaime (Salina Cruz)	Mexico	06/09/20	06/30/20	97,200 bbl/d	OA Atmospheric Distillation	U
05/26/20	Pemex Transformacion Industrial - Refineria Lazaro Cardenas (Minatitlan)	Mexico	01/16/18	06/15/20	60,000 bbl/d	VE Atmospheric Distillation	U
05/26/20	Pemex Transformacion Industrial - Refineria Lazaro Cardenas (Minatitlan)	Mexico	04/10/18	06/15/20	75,000 bbl/d	VE Atmospheric Distillation	U
05/26/20	Pemex Transformacion Industrial - Refineria Lazaro Cardenas (Minatitlan)	Mexico	05/26/20	06/15/20	40,500 bbl/d	VE Atmospheric Distillation	U
05/22/20	Pemex Transformacion Industrial - Cadereyta Refinery (Ingeniero Hector R Lara Sosa)	Mexico	05/05/20	06/20/20	120,000 bbl/d	NL Atmospheric Distillation	U
05/22/20	Pemex Transformacion Industrial - Cadereyta Refinery (Ingeniero Hector R Lara Sosa)	Mexico	05/19/20	06/20/20	41,850 bbl/d	NL Atmospheric Distillation	U
01/03/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	10/01/20	11/14/20	60,000 bbl/d	GT Atmospheric Distillation	
<b>Reformers: Daily Off-Line Capacity: 50,957 bbl/d</b>			<b>Total Off-line: 7,643,575</b>		<b>Date Range: 6/3/2020 - 10/30/2020</b>		
06/03/20	Pemex Transformacion Industrial - Refineria Francisco I Madero (Ciudad Madero)	Mexico	06/03/20	06/16/20	4,700 bbl/d	TA CCR(Continuous Catalytic Reformer)	U
<b>New Turnaround: Comments: Financial constraints related to Company finances.</b>							
06/02/20	Pemex Transformacion Industrial - Refineria Francisco I Madero (Ciudad Madero)	Mexico	10/01/20	10/30/20	20,000 bbl/d	TA Semiregen/Cyclic Reformer	
05/31/20	Pemex Transformacion Industrial - Refineria Lazaro Cardenas (Minatitlan)	Mexico	05/26/20	06/15/20	12,000 bbl/d	VE CCR(Continuous Catalytic Reformer)	U
05/31/20	Pemex Transformacion Industrial - Refineria Lazaro Cardenas (Minatitlan)	Mexico	05/26/20	06/15/20	7,200 bbl/d	VE CCR(Continuous Catalytic Reformer)	U
05/29/20	Pemex Transformacion Industrial - Cadereyta Refinery (Ingeniero Hector R Lara Sosa)	Mexico	05/22/20	06/14/20	15,600 bbl/d	NL CCR(Continuous Catalytic Reformer)	U
05/29/20	Pemex Transformacion Industrial - Cadereyta Refinery (Ingeniero Hector R Lara Sosa)	Mexico	05/22/20	06/20/20	9,600 bbl/d	NL CCR(Continuous Catalytic Reformer)	U
05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio Dovali Jaime (Salina Cruz)	Mexico	05/28/20	06/08/20	18,000 bbl/d	OA Semiregen/Cyclic Reformer	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### Mexico

05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	05/28/20	06/17/20	14,625 bbl/d	GT	CCR(Continuous Catalytic Reformer)	U
05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	05/28/20	06/17/20	10,920 bbl/d	GT	CCR(Continuous Catalytic Reformer)	U
05/27/20	Pemex Transformacion Industrial - Refineria Ingeniero Dovali Jaime (Salina Cruz)	Mexico	04/17/20	06/08/20	20,000 bbl/d	OA	CCR(Continuous Catalytic Reformer)	
05/27/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio Dovali Jaime (Salina Cruz)	Mexico	06/09/20	06/15/20	12,000 bbl/d	OA	CCR(Continuous Catalytic Reformer)	U
04/30/20	Pemex Transformacion Industrial - Refineria Miguel Hidalgo (Tula De Allende)	Mexico	07/01/20	08/29/20	30,000 bbl/d	HG	CCR(Continuous Catalytic Reformer)	
04/27/20	Pemex Transformacion Industrial - Cadereyta Refinery (Ingeniero Hector R Lara Sosa)	Mexico	06/15/20	07/29/20	26,000 bbl/d	NL	CCR(Continuous Catalytic Reformer)	
04/27/20	Pemex Transformacion Industrial - Refineria Lazaro Cardenas (Minatitlan)	Mexico	07/01/20	09/28/20	20,000 bbl/d	VE	CCR(Continuous Catalytic Reformer)	
03/04/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	07/01/20	08/04/20	16,800 bbl/d	GT	CCR(Continuous Catalytic Reformer)	
01/03/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	10/01/20	10/14/20	22,500 bbl/d	GT	CCR(Continuous Catalytic Reformer)	
<b>FCCU: Daily Off-Line Capacity: 43,885 bbl/d</b>			<b>Total Off-line: 6,582,790</b>			<b>Date Range: 6/3/2020 - 10/30/2020</b>		
06/03/20	Pemex Transformacion Industrial - Refineria Francisco I Madero (Ciudad)	Mexico	06/03/20	06/16/20	16,450 bbl/d	TA	FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Financial constraints related to Company finances.								
06/03/20	Pemex Transformacion Industrial - Refineria Francisco I Madero (Ciudad)	Mexico	06/03/20	06/16/20	14,335 bbl/d	TA	FCCU (Fluid Catalytic Cracker)	U
New Turnaround: Comments: Financial constraints related to Company finances.								
06/02/20	Pemex Transformacion Industrial - Refineria Francisco I Madero (Ciudad Madero)	Mexico	10/01/20	10/30/20	30,500 bbl/d	TA	FCCU (Fluid Catalytic Cracker)	
05/31/20	Pemex Transformacion Industrial - Refineria Miguel Hidalgo (Tula De Allende)	Mexico	05/26/20	06/20/20	25,600 bbl/d	HG	FCCU (Fluid Catalytic Cracker)	U
05/31/20	Pemex Transformacion Industrial - Refineria Lazaro Cardenas (Minatitlan)	Mexico	05/26/20	06/15/20	25,200 bbl/d	VE	FCCU (Fluid Catalytic Cracker)	U
05/30/20	Pemex Transformacion Industrial - Refineria Lazaro Cardenas (Minatitlan)	Mexico	05/26/20	06/15/20	16,800 bbl/d	VE	FCCU (Fluid Catalytic Cracker)	U
05/29/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	05/21/20	06/17/20	22,000 bbl/d	GT	FCCU (Fluid Catalytic Cracker)	U

Barrels Off-line from 6/3/2020 to 11/30/2020



### Mexico

05/28/20	Pemex Transformacion Industrial - Cadereyta Refinery (Ingeniero Hector R Lara Sosa)	Mexico	05/22/20	06/20/20	39,000 bbl/d	NL FCCU (Fluid Catalytic Cracker)	U
05/28/20	Pemex Transformacion Industrial - Cadereyta Refinery (Ingeniero Hector R Lara Sosa)	Mexico	05/22/20	06/20/20	15,000 bbl/d	NL FCCU (Fluid Catalytic Cracker)	U
05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio Dovali Jaime (Salina Cruz)	Mexico	05/25/20	06/08/20	20,000 bbl/d	OA FCCU (Fluid Catalytic Cracker)	U
05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio Dovali Jaime (Salina Cruz)	Mexico	06/09/20	06/15/20	24,000 bbl/d	OA FCCU (Fluid Catalytic Cracker)	U
05/27/20	Pemex Transformacion Industrial - Refineria Miguel Hidalgo (Tula De Allende)	Mexico	11/28/19	07/02/20	40,000 bbl/d	HG FCCU (Fluid Catalytic Cracker)	
05/27/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio Dovali Jaime (Salina Cruz)	Mexico	04/17/20	06/08/20	40,000 bbl/d	OA FCCU (Fluid Catalytic Cracker)	
01/03/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	10/01/20	10/30/20	40,000 bbl/d	GT FCCU (Fluid Catalytic Cracker)	
<b>Coker: Daily Off-Line Capacity: 62,246 bbl/d</b>		<b>Total Off-line: 3,548,000</b>		<b>Date Range: 6/3/2020 - 7/29/2020</b>			
06/03/20	Pemex Transformacion Industrial - Refineria Francisco I Madero (Ciudad	Mexico	06/03/20	06/16/20	23,500 bbl/d	TA Delayed Coker	U
New Turnaround: Comments: Financial constraints related to Company finances.							
05/30/20	Pemex Transformacion Industrial - Refineria Lazaro Cardenas (Minatitlan)	Mexico	05/26/20	06/15/20	33,000 bbl/d	VE Delayed Coker	U
05/28/20	Pemex Transformacion Industrial - Cadereyta Refinery (Ingeniero Hector R Lara Sosa)	Mexico	05/22/20	06/14/20	30,000 bbl/d	NL Delayed Coker	U
05/28/20	Pemex Transformacion Industrial - Refineria Ingeniero Antonio Dovali Jaime (Salina Cruz)	Mexico	05/28/20	06/08/20	30,000 bbl/d	OA Visbreaker	U
04/27/20	Pemex Transformacion Industrial - Cadereyta Refinery (Ingeniero Hector R Lara Sosa)	Mexico	06/15/20	07/29/20	50,000 bbl/d	NL Delayed Coker	
<b>Hydrocrackers: Daily Off-Line Capacity: 18,000 bbl/d</b>		<b>Total Off-line: 540,000</b>		<b>Date Range: 10/1/2020 - 10/30/2020</b>			
08/01/19	Pemex Transformacion Industrial - Refineria Ingeniero Antonio M Amor (Salamanca)	Mexico	10/01/20	10/30/20	18,000 bbl/d	GT Residual Hydrocracker	

Barrels Off-line from 6/3/2020 to 11/30/2020

Barrels Off-line from 6/3/2020 to 11/30/2020

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