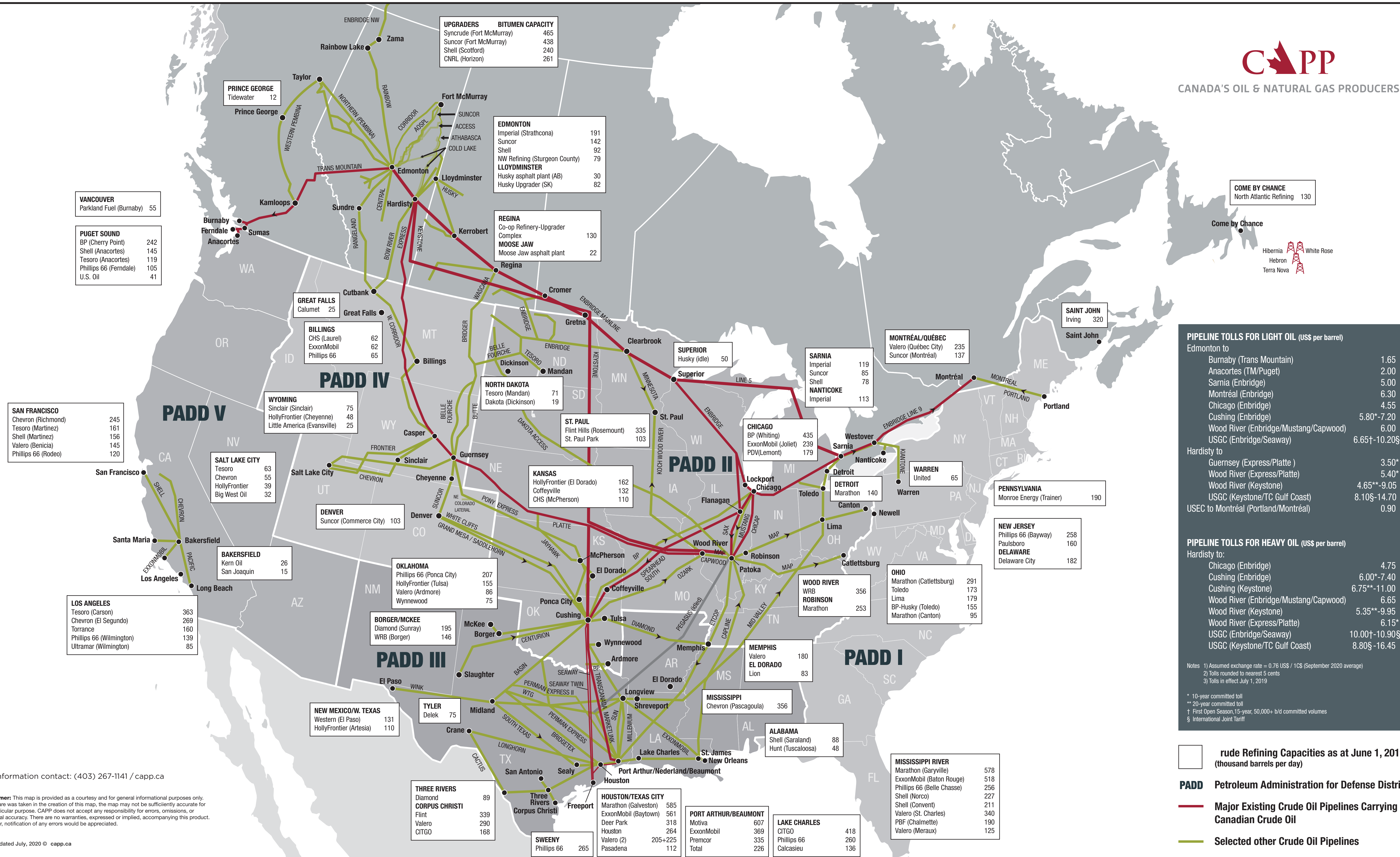


# CANADIAN AND U.S. CRUDE OIL PIPELINES AND REFINERIES - 2020



CANADA'S OIL & NATURAL GAS PRODUCERS



VANCOUVER	
Parkland Fuel (Burnaby)	55

PUGET SOUND	
BP (Cherry Point)	242
Shell (Anacortes)	145
Tesoro (Anacortes)	119
Phillips 66 (Ferndale)	105
U.S. Oil	41

SAN FRANCISCO	
Chevron (Richmond)	245
Tesoro (Martinez)	161
Shell (Martinez)	156
Valero (Benicia)	145
Phillips 66 (Rodeo)	120

SALT LAKE CITY	
Tesoro	63
Chevron	55
HollyFrontier	39
Big West Oil	32

LOS ANGELES	
Tesoro (Carson)	363
Chevron (El Segundo)	269
Torrance	160
Phillips 66 (Wilmington)	139
Ultramar (Wilmington)	85

GREAT FALLS	
Calumet	25

BILLINGS	
OHS (Laurel)	62
ExxonMobil	62
Phillips 66	65

WYOMING	
Sinclair (Sinclair)	75
HollyFrontier (Cheyenne)	48
Little America (Evansville)	25

DENVER	
Suncor (Commerce City)	103

BAKERSFIELD	
Kern Oil	26
San Joaquin	15

OKLAHOMA	
Phillips 66 (Ponca City)	207
HollyFrontier (Tulsa)	155
Valero (Ardmore)	86
Wynnewood	75

BORGER/MCKEE	
Diamond (Sunray)	195
WRB (Borger)	146

NEW MEXICO/W. TEXAS	
Western (El Paso)	131
HollyFrontier (Artesia)	110

THREE RIVERS	
Diamond	89
CORPUS CHRISTI	
Flint	339
Valero	290
CITGO	168

HOUSTON/TEXAS CITY	
Marathon (Galveston)	585
ExxonMobil (Baytown)	561
Deer Park	318
Houston	264
Valero (2)	205+225
Pasadena	112

PORT ARTHUR/BEAUMONT	
Motiva	607
ExxonMobil	369
Premcor	335
Total	226

LAKE CHARLES	
CITGO	418
Phillips 66	260
Calcasieu	136

UPGRADERS BITUMEN CAPACITY	
Syncrude (Fort McMurray)	465
Suncor (Fort McMurray)	438
Shell (Scottford)	240
CNRL (Horizon)	261

EDMONTON	
Imperial (Strathcona)	191
Suncor	142
Shell	92
NW Refining (Sturgeon County)	79
LLOYDMINSTER	
Husky asphalt plant (AB)	30
Husky Upgrader (SK)	82

REGINA	
Co-op Refinery-Upgrader Complex	130
MOOSE JAW	
Moose Jaw asphalt plant	22

NORTH DAKOTA	
Tesoro (Mandan)	71
Dakota (Dickinson)	19

KANSAS	
HollyFrontier (El Dorado)	162
Coffeyville	132
CHS (McPherson)	110

ST. PAUL	
Flint Hills (Rosemount)	335
St. Paul Park	103

SUPERIOR	
Husky (idle)	50

SARNIA	
Imperial	119
Suncor	85
Shell	78
NANTICOKE	
Imperial	113

CHICAGO	
BP (Whiting)	435
ExxonMobil (Joliet)	239
PDV(Lemont)	179

DETROIT	
Marathon	140

WOOD RIVER	
WRB	356
ROBINSON	
Marathon	253

MEMPHIS	
Valero	180
EL DORADO	
Lion	83

ALABAMA	
Shell (Saraland)	88
Hunt (Tuscaloosa)	48

MISSISSIPPI RIVER	
Marathon (Garyville)	578
ExxonMobil (Baton Rouge)	518
Phillips 66 (Belle Chasse)	256
Shell (Norco)	227
Shell (Convent)	211
Valero (St. Charles)	340
PBF (Chalmette)	190
Valero (Meroux)	125

PIPELINE TOLLS FOR LIGHT OIL (US\$ per barrel)	
Edmonton to	
Burnaby (Trans Mountain)	1.65
Anacortes (TM/Puget)	2.00
Sarnia (Enbridge)	5.00
Montréal (Enbridge)	6.30
Chicago (Enbridge)	4.55
Cushing (Enbridge)	5.80*-7.20
Wood River (Enbridge/Mustang/Capwood)	6.00
USGC (Enbridge/Seaway)	6.65†-10.20§
Hardisty to	
Guernsey (Express/Platte)	3.50*
Wood River (Express/Platte)	5.40*
Wood River (Keystone)	4.65**-9.05
USGC (Keystone/TC Gulf Coast)	8.10§-14.70
USEC to Montréal (Portland/Montréal)	0.90

PIPELINE TOLLS FOR HEAVY OIL (US\$ per barrel)	
Hardisty to:	
Chicago (Enbridge)	4.75
Cushing (Enbridge)	6.00*-7.40
Cushing (Keystone)	6.75**-11.00
Wood River (Enbridge/Mustang/Capwood)	6.65
Wood River (Keystone)	5.35*-9.95
Wood River (Express/Platte)	6.15*
USGC (Enbridge/Seaway)	10.00†-10.90§
USGC (Keystone/TC Gulf Coast)	8.80§-16.45

Notes: 1) Assumed exchange rate = 0.76 US\$ / 1 C\$ (September 2020 average)  
 2) Tolls rounded to nearest 5 cents  
 3) Tolls in effect July 1, 2019

\* 10-year committed toll  
 \*\* 20-year committed toll  
 † First Open Season, 15-year, 50,000+ b/d committed volumes  
 § International Joint Tariff

- crude Refining Capacities as at June 1, 2019 (thousand barrels per day)
- PADD** Petroleum Administration for Defense District
- Major Existing Crude Oil Pipelines Carrying Canadian Crude Oil
- Selected other Crude Oil Pipelines

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Crude Refining Capacities as at July 1, 2020