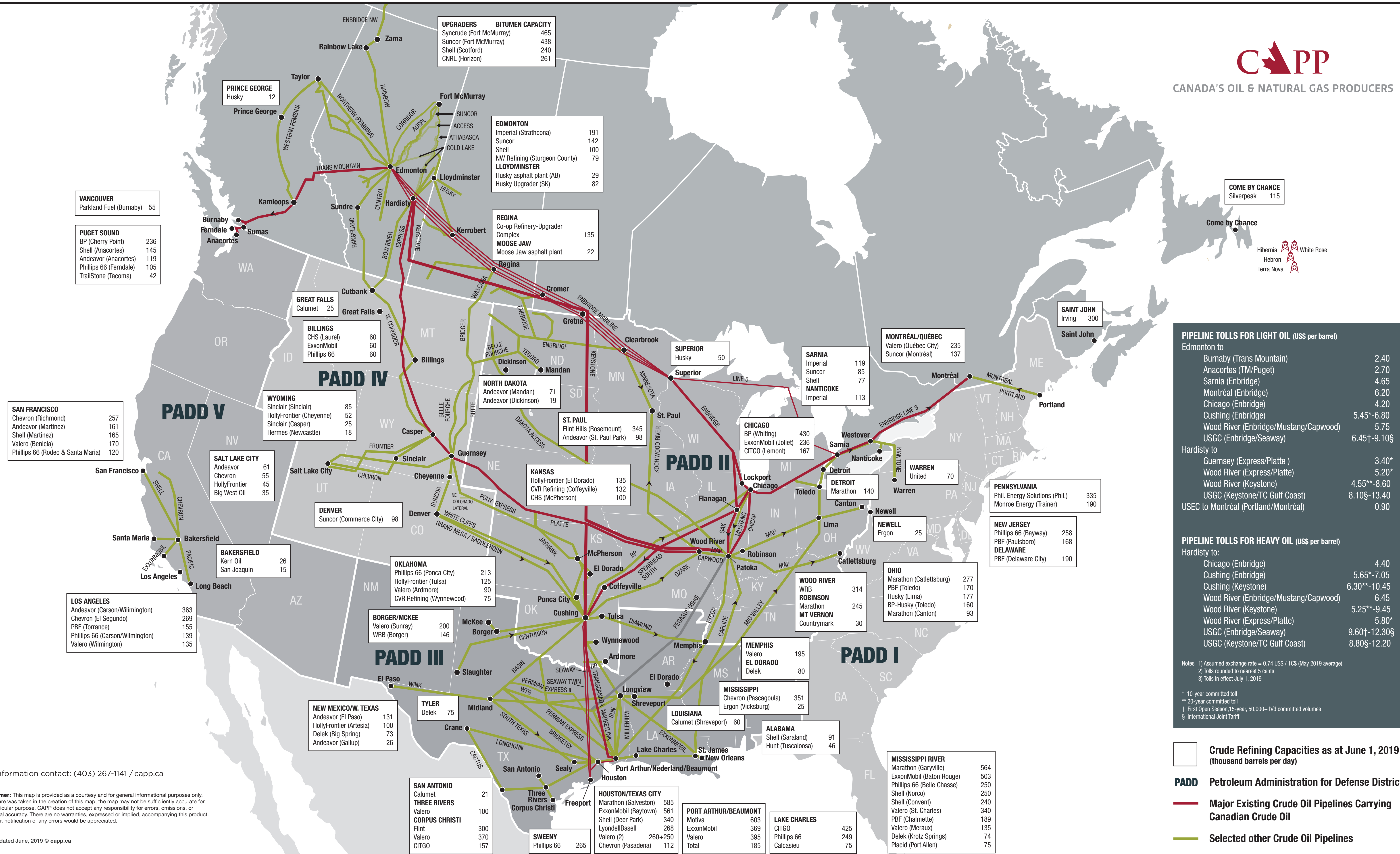


CANADIAN AND U.S. CRUDE OIL PIPELINES AND REFINERIES - 2019



CANADA'S OIL & NATURAL GAS PRODUCERS



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

EDMONTON	Capacity
Imperial (Strathcona)	191
Suncor	142
Shell	100
NW Refining (Sturgeon County)	79
LLOYDMINSTER	Capacity
Husky asphalt plant (AB)	29
Husky Upgrader (SK)	82

REGINA	Capacity
Co-op Refinery-Upgrader Complex	135
MOOSE JAW	Capacity
Moose Jaw asphalt plant	22

GREAT FALLS	Capacity
Calumet	25
BILLINGS	Capacity
OHS (Laurel)	60
ExxonMobil	60
Phillips 66	60

WYOMING	Capacity
Sinclair (Sinclair)	85
HollyFrontier (Cheyenne)	52
Sinclair (Casper)	25
Hermes (Newcastle)	18

SALT LAKE CITY	Capacity
Andeavor	61
Chevron	55
HollyFrontier	45
Big West Oil	35

DENVER	Capacity
Suncor (Commerce City)	98

OKLAHOMA	Capacity
Phillips 66 (Ponca City)	213
HollyFrontier (Tulsa)	125
Valero (Ardmore)	90
CVR Refining (Wynnewood)	75

BORGER/MCKEE	Capacity
Valero (Sunray)	200
WRB (Borger)	146

NEW MEXICO/W. TEXAS	Capacity
Andeavor (El Paso)	131
HollyFrontier (Artesia)	100
Delek (Big Spring)	73
Andeavor (Gallup)	26

SAN ANTONIO	Capacity
Calumet	21
THREE RIVERS	Capacity
Valero	100
CORPUS CHRISTI	Capacity
Flint	300
Valero	370
CITGO	157

HOUSTON/TEXAS CITY	Capacity
Marathon (Galveston)	585
ExxonMobil (Baytown)	561
Shell (Deer Park)	340
LyondellBasell	268
Valero (2)	260+250
Chevron (Pasadena)	112

PORT ARTHUR/BEAUMONT	Capacity
Motiva	603
ExxonMobil	369
Valero	395
Total	185

LAKE CHARLES	Capacity
CITGO	425
Phillips 66	249
Calcasieu	75

MISSISSIPPI RIVER	Capacity
Marathon (Garyville)	564
ExxonMobil (Baton Rouge)	503
Phillips 66 (Belle Chasse)	250
Shell (Norco)	250
Shell (Convent)	240
Valero (St. Charles)	340
PBF (Chalmette)	189
Valero (Meraux)	135
Delek (Krotz Springs)	74
Placid (Port Allen)	75

PIPELINE TOLLS FOR LIGHT OIL (US\$ per barrel)	
Edmonton to	
Burnaby (Trans Mountain)	2.40
Anacortes (TM/Puget)	2.70
Sarnia (Enbridge)	4.65
Montréal (Enbridge)	6.20
Chicago (Enbridge)	4.20
Cushing (Enbridge)	5.45*-6.80
Wood River (Enbridge/Mustang/Capwood)	5.75
USGC (Enbridge/Seaway)	6.45†-9.10\$
Hardisty to	
Guernsey (Express/Platte)	3.40*
Wood River (Express/Platte)	5.20*
Wood River (Keystone)	4.55**-8.60
USGC (Keystone/TC Gulf Coast)	8.10\$-13.40
USEC to Montréal (Portland/Montréal)	0.90
PIPELINE TOLLS FOR HEAVY OIL (US\$ per barrel)	
Hardisty to:	
Chicago (Enbridge)	4.40
Cushing (Enbridge)	5.65*-7.05
Cushing (Keystone)	6.30**-10.45
Wood River (Enbridge/Mustang/Capwood)	6.45
Wood River (Keystone)	5.25*-9.45
Wood River (Express/Platte)	5.80*
USGC (Enbridge/Seaway)	9.60†-12.30\$
USGC (Keystone/TC Gulf Coast)	8.80\$-12.20

Notes: 1) Assumed exchange rate = 0.74 US\$ / 1 C\$ (May 2019 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

For information contact: (403) 267-1141 / capp.ca

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