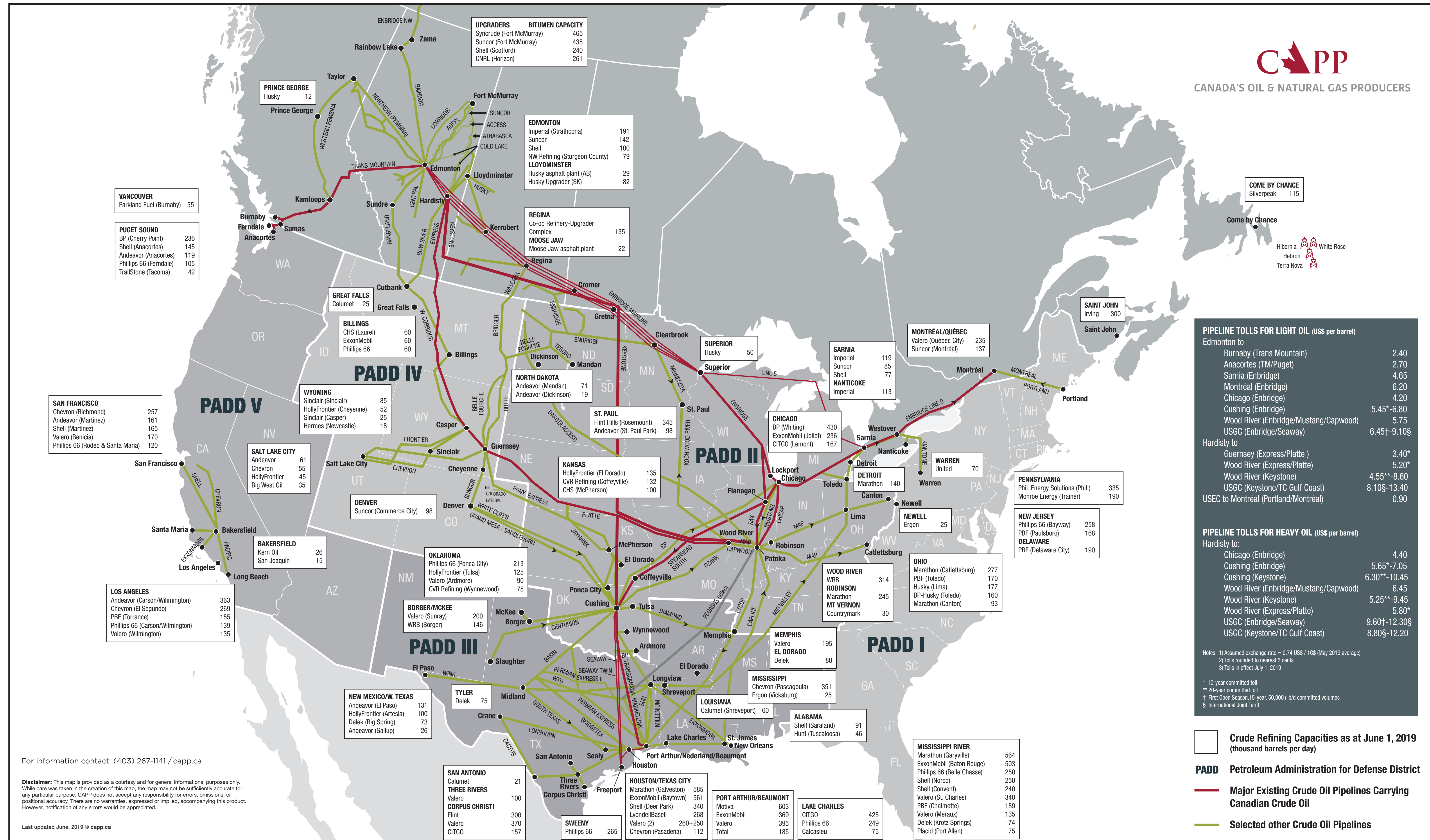


CANADIAN AND U.S. CRUDE OIL PIPELINES AND REFINERIES - 2019



CANADA'S OIL & NATURAL GAS PRODUCERS



VANCOUVER	
Parkland Fuel (Burnaby)	55

PUGET SOUND	
BP (Cherry Point)	236
Shell (Anacortes)	145
Andeavor (Anacortes)	119
Phillips 66 (Ferndale)	105
TrailStone (Tacoma)	42

SAN FRANCISCO	
Chevron (Richmond)	257
Andeavor (Martinez)	161
Shell (Martinez)	165
Valero (Benicia)	170
Phillips 66 (Rodeo & Santa Maria)	120

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

LOS ANGELES	
Andeavor (Carson/Wilmington)	363
Chevron (El Segundo)	269
PBF (Torrance)	155
Phillips 66 (Carson/Wilmington)	139
Valero (Wilmington)	135

GREAT FALLS	
Calumet	25

BILLINGS	
OHS (Laurel)	60
ExxonMobil	60
Phillips 66	60

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

DENVER	
Suncor (Commerce City)	98

BAKERSFIELD	
Kern Oil	26
San Joaquin	15

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

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

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

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

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

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

LAKE CHARLES	
CITGO	425
Phillips 66	249
Calcasieu	75

MISSISSIPPI RIVER	
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

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

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

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

NORTH DAKOTA	
Andeavor (Mandan)	71
Andeavor (Dickinson)	19

ST. PAUL	
Flint Hills (Rosemount)	345
Andeavor (St. Paul Park)	98

KANSAS	
HollyFrontier (El Dorado)	135
CVR Refining (Coffeyville)	132
CHS (McPherson)	100

CHICAGO	
BP (Whiting)	430
ExxonMobil (Joliet)	236
CITGO (Lemont)	167

DETROIT	
Marathon	140

WOOD RIVER	
WRB	314
ROBINSON	
Marathon	245
MT VERNON	
Countrymark	30

MEMPHIS	
Valero	195
EL DORADO	
Delek	80

MISSISSIPPI	
Chevron (Pascagoula)	351
Ergon (Vicksburg)	25

ALABAMA	
Shell (Saraland)	91
Hunt (Tuscaloosa)	46

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

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