

ST3

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This page provides statistical data on the supply and disposition of crude oil and equivalent, natural gas and gas products, and prices for oil and sulphur for the province of Alberta. It is the electronic version of the AER publication *ST3: Alberta Energy Resource Industries Monthly Statistics*.

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Statistical Data and Prices – by Product

Statistical tables are generated from data received from the Petroleum Registry, Oil Sand statements (S-23), and statements for pipelines regulated by the National Energy Board. The Oil Sands and pipeline statements may not have been received at the time of publishing and this may result in large reporting adjustments. Amendments and late data will be incorporated in subsequent releases of *ST3* resulting in differences between previously published data and the current publication of *ST3*.

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Product	Statistical Data	Current	2015	2014	2013
Butanes Product definition	Supply & disposition	PDF (/documents/sts/st3/Butane_current.pdf) XLS (/documents/sts/st3/Butane_current.xls)	PDF (/documents/sts/st3/Butane_2015.pdf) XLS (/documents/sts/st3/Butane_2015.xls)	PDF (/documents/sts/st3/Butane_2014.pdf) XLS (/documents/sts/st3/Butane_2014.xls)	PDF (/documents/sts/st3/Butane_2013.pdf) XLS (/documents/sts/st3/Butane_2013.xls)
	Prices				
Ethane Product definition	Supply & disposition	PDF (/documents/sts/st3/Ethane_current.pdf) XLS (/documents/sts/st3/Ethane_current.xls)	PDF (/documents/sts/st3/Ethane_2015.pdf) XLS (/documents/sts/st3/Ethane_2015.xls)	PDF (/documents/sts/st3/Ethane_2014.pdf) XLS (/documents/sts/st3/Ethane_2014.xls)	PDF (/documents/sts/st3/Ethane_2013.pdf) XLS (/documents/sts/st3/Ethane_2013.xls)
	Prices				
	Ethane disposition is not published due to circumstances unique to the Alberta ethane industry and in accordance with the Board's policies concerning confidentiality.				
Gas Product definition	Supply & disposition	PDF (/documents/sts/st3/Gas_current.pdf) XLS (/documents/sts/st3/Gas_current.xls)	PDF (/documents/sts/st3/Gas_2015.pdf) XLS (/documents/sts/st3/Gas_2015.xls)	PDF (/documents/sts/st3/Gas_2014.pdf) XLS (/documents/sts/st3/Gas_2014.xls)	PDF (/documents/sts/st3/Gas_2013.pdf) XLS (/documents/sts/st3/Gas_2013.xls)
	Gas Storage	PDF (/documents/sts/st3/GasStorage_current.pdf) XLS (/documents/sts/st3/GasStorage_current.xls)	PDF (/documents/sts/st3/GasStorage_2015.pdf) XLS (/documents/sts/st3/GasStorage_2015.xls)	PDF (/documents/sts/st3/GasStorage_2014.pdf) XLS (/documents/sts/st3/GasStorage_2014.xls)	PDF (/documents/sts/st3/GasStorage_2013.pdf) XLS (/documents/sts/st3/GasStorage_2013.xls)
	Prices				
NGL Product definition	Supply & Disposition	PDF (/documents/sts/st3/NGL_current.pdf) XLS (/documents/sts/st3/NGL_current.xls)	PDF (/documents/sts/st3/NGL_2015.pdf) XLS (/documents/sts/st3/NGL_2015.xls)	PDF (/documents/sts/st3/NGL_2014.pdf) XLS (/documents/sts/st3/NGL_2014.xls)	PDF (/documents/sts/st3/NGL_2013.pdf) XLS (/documents/sts/st3/NGL_2013.xls)
	Prices				
Oil Product	Supply & disposition ¹	PDF (/documents/sts/st3/Oil_current.pdf) XLS (/documents/sts/st3/Oil_current.xls)	PDF (/documents/sts/st3/Oil_2015.pdf) XLS (/documents/sts/st3/Oil_2015.xls)	PDF (/documents/sts/st3/Oil_2014.pdf) XLS (/documents/sts/st3/Oil_2014.xls)	PDF (/documents/sts/st3/Oil_2013.pdf) XLS (/documents/sts/st3/Oil_2013.xls)
	Prices				

definition Prices	PDF (/documents/sts/st3/prices_oil_current.pdf) XLS (/documents/sts/st3/prices_oil_current.xls)	PDF (/documents/sts/st3/prices_oil_2015.pdf) XLS (/documents/sts/st3/prices_oil_2015.xls)	PDF (/documents/sts/st3/prices_oil_2014.pdf) XLS (/documents/sts/st3/prices_oil_2014.xls)	PDF (/documents/sts/st3/prices_oil_2013.pdf) XLS (/documents/sts/st3/prices_oil_2013.xls)
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NOTE: ST3 Oil Supply & Disposition is under review and will be delayed.

Propane	Supply & disposition	PDF (/documents/sts/st3/Propane_current.pdf) XLS (/documents/sts/st3/Propane_current.xls)	PDF (/documents/sts/st3/Propane_2015.pdf) XLS (/documents/sts/st3/Propane_2015.xls)	PDF (/documents/sts/st3/Propane_2014.pdf) XLS (/documents/sts/st3/Propane_2014.xls)	PDF (/documents/sts/st3/Propane_2013.pdf) XLS (/documents/sts/st3/Propane_2013.xls)
Product definition	Prices				

Sulphur	Supply & disposition	PDF (/documents/sts/st3/Sulphur_current.pdf) XLS (/documents/sts/st3/Sulphur_current.xls)	PDF (/documents/sts/st3/Sulphur_2015.pdf) XLS (/documents/sts/st3/Sulphur_2015.xls)	PDF (/documents/sts/st3/Sulphur_2014.pdf) XLS (/documents/sts/st3/Sulphur_2014.xls)	PDF (/documents/sts/st3/Sulphur_2013.pdf) XLS (/documents/sts/st3/Sulphur_2013.xls)
Product definition	Prices	PDF (/documents/sts/st3/Prices_Sulphur_current.pdf) XLS (/documents/sts/st3/Prices_Sulphur_current.xls)	PDF (/documents/sts/st3/Prices_Sulphur_2015.pdf) XLS (/documents/sts/st3/Prices_Sulphur_2015.xls)	PDF (/documents/sts/st3/Prices_Sulphur_2014.pdf) XLS (/documents/sts/st3/Prices_Sulphur_2014.xls)	PDF (/documents/sts/st3/Prices_Sulphur_2013.pdf) XLS (/documents/sts/st3/Prices_Sulphur_2013.xls)

Product Definitions, Standards of Measurements, Notes

This section includes product definitions for the products in the statistical tables, Registry Product Groupings, standards of measurement and definitions of activities that are included in the tables.

Product Definitions

Oil - means condensate or crude oil, or a constituent of raw gas, condensate or crude oil that is recovered in processing, that is liquid at the conditions under which its volume is measured or estimated.

Crude Oil - means a mixture mainly of pentanes and heavier hydrocarbons that may be contaminated with sulphur compounds, that is recovered or is recoverable at a well from an underground reservoir and that is liquid at the conditions under which its volume is measured or estimated, and includes all other hydrocarbon mixtures so recovered or recoverable except raw gas, condensate or crude bitumen. For production measurement and reporting purposes, crude oil is deemed to be "light" if it has a density less than 850 kg/m³, "medium" if it has a density equal to 850 and less than 900 kg/m³, "heavy" if it has a density equal to 900 and less than 925 kg/m³ and "ultra-heavy" if it has a density of equal to 925 kg/m³ or greater. Oil sands production is now separated into upgraded and non-upgraded (formerly crude bitumen).

Crude Bitumen - means a naturally occurring viscous mixture, mainly of hydrocarbon heavier than pentane, that may contain sulphur compounds and that, in its naturally occurring viscous state, will not flow to a well.

Synthetic Crude Oil - means a mixture, mainly of pentanes and heavier hydrocarbons, that may contain sulphur compounds, that is derived from crude bitumen and that is liquid at the conditions under which its volume is measured or estimated, and includes all other hydrocarbon mixtures so derived.

Condensate - means a mixture mainly of pentanes and heavier hydrocarbon that may be contaminated with sulphur compounds, that is recovered or is recoverable at a gas well from an underground reservoir and that may be gaseous in its virgin reservoir state but is liquid at the conditions under which its volume is measured.

Pentanes Plus - means a mixture mainly of pentanes and heavier hydrocarbons that ordinarily may contain some butanes and which is obtained from processing of raw gas, condensate or crude oil.

Skim Oil - refers to produced oil that is carried over with produced water and accumulates in water storage tanks at an injection facility. This is oil recovered from a water disposal injection facility (subtype 503). This oil is usually skimmed off the tank, treated, and then sold.

Gas - means raw gas or marketable gas or any constituent of raw gas, condensate, crude bitumen or crude oil that is recovered in processing and that is gaseous at the conditions under which its volume is measured or estimated.

Raw Gas - means a mixture containing methane, other paraffinic hydrocarbons, nitrogen, carbon dioxide, hydrogen sulphide, helium and minor impurities, or some of them, that is recovered or is recoverable at a well from an underground reservoir and that is gaseous at the conditions under which its volume is measured or estimated.

Marketable Gas - means a mixture mainly of methane originating from raw gas, if necessary through the processing of the raw gas for the removal or partial removal of some constituents, and that meets specifications for use as a domestic, commercial or industrial fuel or as an industrial raw material.

Ethane - means, in addition to its normal scientific meaning, a mixture mainly of ethane that ordinarily may contain some methane or propane.

Propane - means, in addition to its normal scientific meaning, a mixture mainly of propane that ordinarily may contain some ethane or butanes.

Butanes - means, in addition to its normal scientific meaning, a mixture mainly of butanes that ordinarily may contain some propane or pentanes plus.

Natural Gas Liquids - means ethane, propane, butanes, or pentanes plus, or a combination of them, obtained from the processing of raw gas or condensate.

Sulphur - is an element produced as a by-product from the sour gas processing, oil sands upgrading, and refinery operations. It can be extracted and/or stored in a prill, slate, block, or molten form.

Petroleum Registry Product Groupings

Product Grouping describes the combination of specific component products that comprise larger groupings, such as oil, gas, etc. The balancing of facilities is performed at the product grouping level, where the totals of the individual component products are grouped according to the Product Grouping Table for performing balancing calculations.

Products Included

- Crude Oil and Equivalent (OIL, BITUMEN, COND, SYNCRD, IC5-SP, NC5-SP, C5-SP, C6-SP)

- Gas GAS, ACGAS, CO₂, N2)
- Ethane (C2-SP)
- Propane (C3-SP)
- Butanes (IC4-SP, NC4-SP, C4-SP)
- NGL (IC5-MX, NC5-MX, C5-MX, C6-MX, IC4-MX, NC4-MX, C4-MX C3-MX, C2-MX, LITEMX, C1-MX, C02-MX)
- Sulphur (SUL, SPRILL, SMOLT, SBASE, SBLOC, SFORM, SLATE)

Standards of Measurements

Crude Oil and Equivalent: m³ at 15 ° C

Gas: 10³ m³ at 101.325 kPa and 15 ° C

Ethane: m³ at 15 ° C

Propane: m³ at 15 ° C

Butane: m³ at 15 ° C

Natural Gas Liquids: m³ at 15 ° C

Sulphur: tonnes

Activities

GAS: STORAGE INJECTION

Volume of raw or marketable gas injected into a commercial underground reservoir for storage, as approved by the AER under the requirements outlined in *Directive 065: Resources Applications* (</rules-and-regulations/directives/directive-065>).

GAS: STORAGE WITHDRAWALS

Withdrawal of raw or marketable gas from a AER approved commercial underground reservoir.

GAS: OTHER INJECTION

Volume of gas injected into an underground reservoir for the purpose of proprietary storage, disposal, or to increase recovery efficiency.

GAS: RAW

Volume of gas derived from upstream facilities such as battery, gas gathering system, and gas plant (excluding mainline straddle plants) facilities.

GAS: PROCESSED

Volume of gas derived from straddle plant facilities, pipelines, distributors, and transportation facilities.

PLANT PROCESS (Plant Production)

Volumes of gas byproducts extracted from the gas stream received at a gas processing or gas gathering system facility. It is referred to as gas processing plant or gas gathering system production on the publication.

FRACTIONATION YIELD

Volumes of gas byproducts fractionated when a facility receives natural gas liquids as a mixed product and then fractionates (splits) the mix product into component products (spec propane, butanes, etc.) for delivery to market.

Prices

Sources of price data

Crude Oil – Heavy and Light & Medium

- Obtained from Alberta Energy, APMC Average Price Report

Crude Bitumen

- Obtained from selected oil producers that submit statements to the AER

Sulphur – North America and Offshore prices

- Obtained from selected sulphur producers that submit statements to the AER
- Are the reported unit values received at the plant gate after the normal costs and expenses incurred beyond the point by the seller have been deduced; are weighted average unit values

Condensate and Pentanes Plus, Gas, Propane, and Butanes

- Reference prices are available from Alberta Energy's Reference Price website at <http://www.energy.alberta.ca/NaturalGas/1316.asp> (<http://www.energy.alberta.ca/NaturalGas/1316.asp>)

¹*ST3 Oil Supply and Disposition – The format of the report has been modified effective May 6, 2015, to reflect aggregated export volumes to the United States. Because of a change in the availability of data, the report no longer includes a breakdown of dispositions to the United States by PADD. The AER is currently investigating other data sources and will add more detail should additional data become available. As well, the report has been revised as of September 2015 (July 2015 production data) to better reflect the breakdown of crude oil production by density. The change was implemented to be consistent with other reports that report crude oil production. For production measurement and reporting purposes, crude oil is deemed to be “light” if it has a density less than 850 kg/m³, “medium” if it has a density equal to 850 and less than 900 kg/m³, “heavy” if it has a density equal to 900 and less than 925 kg/m³ and “ultra-heavy” if it has a density of equal to 925 kg/m³ or greater. Oil sands production is now categorised as upgraded and non-upgraded (formerly crude bitumen).*

