

U.S. Petroleum Refineries



Tags

refinery, petroleum, energy, crude oil, infrastructure, EIA, U.S.

Summary

This data was created for the purpose of identifying and providing detailed information on petroleum refineries in the United States.

Description

This is a point dataset representing all operable petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions as of January 1, 2020. These data originate from the U.S. Energy Information Administration, Refinery Capacity Report, Table 3. Capacity of Operable Petroleum Refineries by State: <http://www.eia.gov/petroleum/refinerycapacity/table3.pdf>. In addition to the sources listed, accuracy for the locations of facilities shown on the map was improved through the use of publicly available sites such as company websites and satellite images from public websites.

Credits

U.S. Energy Information Administration

Use limitations

None (public use). Users are advised to thoroughly review the metadata to understand the appropriate use and limitations of the data. These data and related graphics, if available, are not legal documents and are not intended to be used as such. The information contained in these data is dynamic and may change over time. The U.S. Energy Information Administration gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data.

Extent

West -158.091400 **East** -64.748760
North 70.324832 **South** 17.708570

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata

Topics and Keywords

* **CONTENT TYPE** Downloadable Data
PLACE KEYWORDS United States, USA
THEME KEYWORDS refinery, petroleum, energy, crude oil, infrastructure, EIA

Citation

TITLE U.S. Petroleum Refineries
PUBLICATION DATE 2020-07-10 00:00:00
PRESENTATION FORMATS * digital map

Resource Details

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format
SPATIAL REPRESENTATION TYPE * vector
*** PROCESSING ENVIRONMENT** Version 6.2 (Build 9200) ; Esri ArcGIS 10.6.1.9270

Credits

U.S. Energy Information Administration

ArcGIS Item Properties

* **NAME**
* **SIZE** 0.004
* **LOCATION**
* **ACCESS PROTOCOL** Local Area Network

Extents

EXTENT

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -158.091400
* EAST LONGITUDE -64.748760
* NORTH LATITUDE 70.324832
* SOUTH LATITUDE 17.708570
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE -17598654.146796
* EAST LONGITUDE -7207798.992696
* SOUTH LATITUDE 2003465.186060
* NORTH LATITUDE 11175273.458990
* EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT
INDIVIDUAL'S NAME EIA Mapping Mailbox: mapping@eia.gov

Resource Maintenance

RESOURCE MAINTENANCE
UPDATE FREQUENCY annually

Resource Constraints

CONSTRAINTS
LIMITATIONS OF USE
None (public use). Users are advised to thoroughly review the metadata to understand the appropriate use and limitations of the data. These data and related graphics, if available, are not legal documents and are not intended to be used as such. The information contained in these data is dynamic and may change over time. The U.S. Energy Information Administration gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data.

Spatial Reference

ARCGIS COORDINATE SYSTEM
* TYPE Projected
* GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
* PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere
* COORDINATE REFERENCE DETAILS
PROJECTED COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 102100
X ORIGIN -21940362.558068998
Y ORIGIN -30241100
XY SCALE 144381166.92742443
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.001
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 3857
WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION
["Mercator_Auxiliary_Sphere"],PARAMETER["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",0.0],PARAMETER
["Standard_Parallel_1",0.0],PARAMETER["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER
* VALUE 3857
* CODESPACE EPSG
* VERSION 8.8(9.3.1.2)

Spatial Data Properties

VECTOR
* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS
FEATURE CLASS NAME refinery_petroleum_eia_v4
* OBJECT TYPE point
* OBJECT COUNT 136

ARCGIS FEATURE CLASS PROPERTIES
FEATURE CLASS NAME refinery_petroleum_eia_v4
* FEATURE TYPE Simple
* GEOMETRY TYPE Point

* HAS TOPOLOGY FALSE
* FEATURE COUNT 136
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

Lineage

LINEAGE STATEMENT
These data originate from the U.S. Energy Information Administration, Refinery Capacity Report, Table 3. Capacity of Operable Petroleum Refineries by State: <http://www.eia.gov/petroleum/refinerycapacity/table3.pdf>. In addition to the sources listed, accuracy for the locations of facilities shown on the map was improved through the use of publicly available sites such as company websites and satellite images from public websites.

Distribution

DISTRIBUTOR
CONTACT INFORMATION
INDIVIDUAL'S NAME mapping@eia.gov

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

TRANSFER OPTIONS

* TRANSFER SIZE 0.004

Fields

DETAILS FOR OBJECT refinery_petroleum_eia_v4

* TYPE Feature Class

* ROW COUNT 136

FIELD OBJECTID

* ALIAS Object ID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

FIELD site_id

* ALIAS Site ID

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Unique stable identification number

FIELD Company

* ALIAS Company Name

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Company name

* DESCRIPTION SOURCE

EIA

FIELD Corp

* ALIAS Corporation Name

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Corporation

* DESCRIPTION SOURCE

EIA

FIELD Site

* ALIAS Site Name

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Site name (city)

* DESCRIPTION SOURCE

EIA

FIELD State

* ALIAS State

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

State

* DESCRIPTION SOURCE

EIA

FIELD PADD

* ALIAS Petroleum Administration for Defense District (PADD)

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Petroleum Administration for Defense District (PADD).

* DESCRIPTION SOURCE

EIA

FIELD AD_Mbpd

ALIAS Atmospheric crude distillation

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Atmospheric crude oil distillation capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD VDist_Mbpd

ALIAS Vacuum distillation

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Vacuum distillation charge capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD CaDis_Mbpd

ALIAS Catalytic cracking

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Catalytic cracking charge capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD HyCrk_Mbpd

ALIAS Catalytic hydrocracking

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Catalytic hydrocracking charge capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD VRedu_Mbpd

ALIAS Thermal cracking, visbreaking

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Thermal cracking, visbreaking charge capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD CaRef_Mbpd

ALIAS Catalytic reforming

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Catalytic reforming charge capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD Isal_Mbpd

ALIAS Alkylation and isomerization

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Alkylation and isomerization charge capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD HDS_Mbpd

ALIAS Desulfurization

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Desulfurization (including catalytic hydrotreating) charge capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD Cokin_Mbpd

ALIAS Thermal cracking, coking

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Thermal cracking, coking charge capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD Asph_Mbpd

ALIAS Asphalt production

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Asphalt production capacity in thousand barrels per stream day (Mbpd).

DESCRIPTION SOURCE

EIA

FIELD Source

* ALIAS Data Source

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

EIA survey used to collect data.

DESCRIPTION SOURCE

EIA

FIELD Period_

ALIAS Period

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Data period (currency)

FIELD Latitude

* ALIAS Latitude

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Latitude of refinery location in decimal degrees calculated in Arc Map using GCS: WGS 84 (EPSG:4326).

DESCRIPTION SOURCE

EIA

FIELD Longitude

* ALIAS Longitude

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Longitude of refinery location in decimal degrees calculated in Arc Map using GCS: WGS 84 (EPSG:4326).

DESCRIPTION SOURCE

EIA

FIELD Shape

* ALIAS Shape

* DATA TYPE Geometry

* WIDTH 0

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Feature geometry.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Coordinates defining the features.

Metadata Details

* METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset

SCOPE NAME * dataset

* LAST UPDATE 2021-08-05

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2021-07-07 12:05:01

LAST MODIFIED IN ARCGIS FOR THE ITEM 2021-08-05 12:06:44

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2021-08-05 12:06:44

Metadata Maintenance

MAINTENANCE
UPDATE FREQUENCY annually

Metadata Constraints

CONSTRAINTS
LIMITATIONS OF USE
None (public use)