

# Throughput Calculations for Tank Farms, Terminals & Refineries



**Automating product throughput analysis reduces the amount of time and effort for operators to accurately estimate emissions.**

## EPA Title V Reporting

*Title V of the 1990 Clean Air Act requires that all major sources of air pollution obtain an operating permit. Tank farms and terminals may be a major source of emissions; consequently they require a Title V permit. Facility owners, and operators must estimate their total emissions each year. If an estimate is exceeded, the penalty can be heavy. Typically, a software application developed by the EPA called TANKS is used to submit total emissions for Title V applications.*

### Throughput Analysis

FuelsManager Oil & Gas Professional Edition provides a unique tool to assist with product throughput analysis for all types of bulk petroleum storage tanks.

- Reduces operator time, and effort when estimating emissions, and applying for an EPA Title V permit
- Provides simple configuration — utilizes FuelsManager's preconfigured historical tank database

### SCAQMD Compliance

All calculated data can be exported to a data file that can be opened in standard business software, such as Microsoft Excel, or exported to US EPA TANKS (version 4.09b) software. TANKS then calculates emissions in compliance with South Coast Air Quality Management District (SCAQMD) emission reporting. Two methods can be used to calculate throughput.

- SCAQMD — throughput equals  $0.178107 * (\pi * \text{Tank Diameter} * \text{Tank Diameter} / 4) * \text{Level Change}$ .
- NON-SCAQMD — throughput equals the sum of the tank net volume change for the selected time period.

# Throughput Calculations

for Tank Farms, Terminals & Refineries

## A Simple Operation

An Intuitive — easy to use throughput calculator provides four easy steps to accurate tank throughput value.

- ▶ *Select time periods — analyzes your tanks per month, per year or over any given period*
- ▶ *Select engineering units — gallons, bbls, etc.*
- ▶ *Add or remove tanks before an analysis is performed*
- ▶ *Perform an analysis, update tanks software, and export a data file for your business use*

For example, analyzing specific tanks per month, per year (or over any given period), and display the results in the engineering units you select — gallons, bbls, etc.

System Name	Tank Point	Throughput	Est Yearly Throughput	Eng. Units	# Valid	#
\BSCHAAL	T002.TankPoint	3329174.4	40504955.6	U.S. Gallons	1441	0
\BSCHAAL	T003.TankPoint	3337550.9	40606869.4	U.S. Gallons	1440	1
\BSCHAAL	T004.TankPoint	3334681.9	40571963.1	U.S. Gallons	1441	0
\BSCHAAL	T005.TankPoint	3356624.0	40838924.8	U.S. Gallons	1441	0
\BSCHAAL	T006.TankPoint	3340846.7	40646967.6	U.S. Gallons	1440	1
\BSCHAAL	T007.TankPoint	3330915.3	40526136.7	U.S. Gallons	1440	1
\BSCHAAL	T008.TankPoint	3319488.0	40387103.8	U.S. Gallons	1440	1

Throughput Calculator Interface

Perform Analysis

Export Data for TANKS Software

Export Data

## Environmental Products & Services

FuelsManager Oil & Gas also provides additional environmental features, such as automated leak detection, facility monitoring, and overflow prevention. In addition, our trained, and certified personnel provide a range of comprehensive environmental compliance services, such as tightness testing, tank and pipeline inspections (API-653, STI SP001, API-570), and underground storage tank operator programs.

## Contact Us

Make a single call to our team and we will perform a feasibility study to identify the right solution for your facility that meets or exceeds environmental regulations, and ensures that you keep your inventory and investment in the tank.

