Fleet Sizing

The Fleet Sizing function under the Utilities menu enables you to create various fleet sizing analysis scenarios. The scenarios are used to determine car requirements by fleet, business group, fleet/business group. The scenarios created can be saved for future reference and can be modification as situations change.

The function allows analysis and fleet size based upon historical performance or a query can be built that, with minimum input, will provide the number of cars required to complete a movement of product.

The Fleet Sizing report is accessed by selecting Fleet Sizing from the Reports tab.



Selecting Fleet Sizing and Queries and entering All in the Get Data Box returns a list screen. The screen will either be blank, if no previous queries have been saved, or a display of previously created fleet sizing queries will return. Queries can be built for personal use and functionality also exists that allows the query to be retrieved and viewed by others. The creator of the query determines whether the query is for personal or open use.

The Maintain Fleet Size list screen provides the following information:

- User Name. The system stores the user ID of the user that creates and saves each query.
- **Query Name.** Each query that is saved must be given a unique name. For easy recognition the name should be indicative of the analysis being performed.
- **System Wide.** This is the control that makes the query personal to the user if set to "N" for NO, or open to public viewing if set as "Y" for YES.
- Period. Defines the period for the sizing analysis as either Monthly, Quarterly or Yearly.
- Unit of Measure. Indicates the units of measure.
- Period Volume. Defines the amount of product to be moved in the defined period.
- **Peak Volume.** Defines a peak volume within the period that is higher than the average period volume. For example, during a first quarter sizing analysis of the peak volume may show that January has twice as much volume as the other two months in that quarter.
- Avg Load Capacity. Defines the average capacity of the cars to be used in this service.

The following is a typical Maintain Fleet Sizing list screen:

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SA	SR2	Y	Y	Gals	10,485,000.00	873,750.00	96.00	
SA	SR 12	Y	Y	Gals	10,485,000.00	873,750.00	96.00	
SA	TEST1	Y	Y	Gals	0.00	0.00	0.00	
SA	TEST2	Y	Y	Gals	0.00	0.00	0.00	
SA	TEST3	Y	Y	Gals	0.00	0.00	0.00	
SA	SR3	Y	Y	Gals	0.00	0.00	0.00	
SA	SR4	Y	Y	Gals	0.00	0.00	0.00	
SA	SR5	Y	Y	Gals	0.00	0.00	0.00	
SA	SR6	Y	м	Gals	0.00	0.00	0.00	
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Fleet Sizing detail screen: Double click on one of the queries to show the Fleet Sizing detail screen

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Entity C By Fleet C By Business Group C By Fleet/Business Group	2	Period ⊂ Month ⊂ Quarter ⊙ Year	Trans Begin D End Da	i t Time Date F ate: 01/01/0 te: 07/31/0	6 V	System Wide Query	
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Cust Hold:	6.00	0.00	Actual C Plugin	16.00	63	0	63
Orig Hold:	8.00	0.00	Actual C Plugin	21.00	84	0	84
Lease Track Hold:	0.00	0.00	Actual C Plugin	0	0		
	38.00	38.00		100.00	398	0	398

If the New button is selected	the following blank	screen will appear
RT Fleet Sizing Analysis		

	ery Name:					User	Name KELLY/	A		
En O By Fle O By Bu O By Fle	tity eet siness Group eet/Business (Group	Pe © C	e riod Month Quarter Year		Transit Begin Date End Date:	Time Date Range : 00/00/00 00/00/00		System Wide Query	- ,
Fleet 0 0 2 2 3	0000 ZER(01 BAY) 06 BR F 74 PAK1 75 PAK1 785 CEN) TESTING NAY CHEM PLANT UELS 'ANK-DEER PARK 'ANK-GALENA PAR TENNIAL EAST NGL	Bus Grp	1 W 1310 ES 2203 ES 2510 ES 2596 ES 2AR JC	ARREN SCOREZ (E-13 SCOREZ (E-22 SCOREZ (E-25 SCOREZ (E-25 SCOREZ (E-25 SCOREZ (E-25	310) 203LC 510) 596) FER P	Init of Measure:	Gals		=
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Cust Hol	d:	þ	þ	• Act	ual C Plugir	n				
Orig Hold	d:	p	þ	 Acti 	ual 🔿 Plugir	n				
Lease Tr	ack Hold:	p	þ	Action	ual C Plugir	n				

This screen provides the ability to create a new query that provides for the setting of the following defining fields:

- **Query Name** all saved queries must have a file name applied. If multiple queries have been saved, the file name should be a reference to what the query is doing.
- Entity defines the analysis to a Fleet, Business Group or a Fleet/Business Group combination. This field is only used if a fleet and or business group is defined in the fields to follow.
- **Period** defines the period of analysis as a month, a quarter or a year.
- Whether using historical data and actuals or plug in data this field must be populated.
- **Transit Time Date Range** If actuals are used, defines the amount of shipment history used to calculate transit times. No dates are required if plug in times are used.
- System Wide Query when checked, opens this query to viewing by anyone with access to this functionality. If not checked, the query access is restricted to the user ID of the person who created it.
- Fleet defines the fleet used if the analysis is by fleet or fleet/business group.
- **Business Group** defines the business group used if the analysis is by business group or fleet/business group.
- Unit of Measure defines the unit of measure to be applied against the Avg Loaded Capacity that is defined for each car. Whether using historical, actuals or plug in data, this field must be populated.
- **Period Vol (units/period)** defines the amount of product to be moved for the period defined in the query. Whether using historical, actuals or plug in data, this field must be populated.
- Use Rateably when checked, the Period Vol will be considered as moving at an even rate for the entire period. The Peak Vol will be calculated on a "by Month" basis for the period. If not checked, a Peak Vol must be entered in the Peak Vol field.
- Peak Vol (units) will be defined by the system if the Use Rateably is checked.
- If Use Rateably is not checked, this volume must be entered. This also only applies if the analysis is for a quarter or a year.
- Avg Loaded Capacity defines the average load carrying capacity of all cars to be used in this service.
- Out of Service 0-100% defines the out of service time experienced either by a group of cars historically, or entered as a plug in.

When all of the above data is entered as required, clicking the **Calculate Fleet Size** button at the bottom of the screen will process the fleet size analysis. A sample fleet size analysis is shown below:

RT Fleet Sizing Analysis

E	Entity		Pe	riod		Transit Time I	Date Range		
🖲 By F	Fleet		0	Month	E	Begin Date: 0	0/00/00	System Wid	de Query
OBy E	Business Gro	pup	Ō	Quarter	,	od Date: 0	0/00/00		
⊖ Ву Р	Fleet/Busine	ess Group	۲	Year			4,00,00		
Fleet	00000 Z	ERO TESTING	Bus Grp	1 W	ARREN	∧ Unit of	Measure: LBS		
	001 B	AYWAY CHEM PLANT		1310 E	SCOREZ (E-131)			
	006 В	R FUELS		2203 E	SCOREZ (E-220)	BLC			
	274 P	AKTANK-DEER PARK		2510 E	SCOREZ (E-251))			
	275 P	AKTANK-GALENA PAR		2596 E	SCOREZ (E-259	5)			
Period Vol (unit Peak Volume (u	3785 C ts/period): units):	ENTENNIAL EAST NGL 4,397,656,397.00 366,471,366.00	Out	2AR Ju Use Rateably t of Service 0-	100%: 0	₹F ¥	2.00	O Actual Plu	ugin
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As shown, the remaining fields on the left of the screen will populate with Actual data from the historical trip information stored in the system. These fields are:

- **Transit Out** defines the average transit time to the customer for the fleet and business group and Transit Time Date Range that was defined.
- **Transit In** defines the average transit time from the customer back to origin for the fleet and business group and Transit Time Date Range that was defined.
- **Cust Hold** defines the average expected hold time at the customer sight for the fleet and business group and Transit Time Date Range that was defined.
- **Orig Hold** defines the average hold time for cars at origin from the return of a trip to the beginning of the next trip for the fleet and business group and Transit Time Date Range that was defined.
- Lease Track Hold defines the average time cars remain at a lease track prior to going on to the customer for the fleet and business group and Transit Time Date Range that was defined.

All of the above transit times will be provided by the system when the Transit Time Date Range fields are populated with a Begin and End date and the Fleet and or Business Group is provided. When this is complete, the **Actual** button for each field will be activated.

Once the query has been created it can be saved by clicking the **Save Query** button at the bottom of the screen. The saved query can then be used to test possibilities if some of the data elements were different from the historical records used. The following is an example of the previous query only with plug in data for the Transit In, the Origin Hold and the Bad Order:

Quer	ry Name:	ZERO TESTING			User Na	me KELLYA		
Entit	y		Peri	iod	Transit Tin	ne Date Range		
By Fleet	t		Ом	lonth	Begin Date:	00/00/00	System Wid	le Query
O By Busin	ness Group		○ Q	luarter	End Date:	00/00/00	1	
O By Fleet	t/Business	Group	() Ye	ear				
Fleet 000	00 ZER	O TESTING	Bus Grp	1 WARREN	∧ Uni	t of Measure: LBS		
001	BAY	WAY CHEM PLANT		1310 ESCOREZ	(E-1310)			
006	BR F	UELS		2203 ESCOREZ	(E-2203LC			
274	PAK	TANK-DEER PARK		2510 ESCOREZ	(E-2510)			
275		TANK CALENIA DAD			(C DEDC)			
2/3	PAK	TANK-GALENA PAR	1	2596 ESCOREZ	(E-2596)			
378	5 CEN	TENNIAL EAST NGL		2596 ESCOREZ 2AR JOLIET TR	RANSFER F			
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eriod Vol (units/pr eak Volume (units vg Loaded Capacil Transit Ou Transit Tr Cust Hold: Orig Hold: Lease Trac	eriod): 4 s): 3 ty: 2 tty: 2	Anti-Galetin PAR 397,656,397.00 56,471,366.00 14,095.00 Actual (days /trip) 0 0 0 0 0 0 0 0 0 0 0	Plugin (days/tr 7 15 12 13 5	2596 ESCOREZ 2AR JOLIET TF se Rateably of Service 0-100%: of Service 0-100%: O O Actual O	(c.2.2996) 2 ANSFER F v Plugin 0.00 Plugin 54.00 Plugin 64.00 Plugin 0.00 Plugin 0.00	20.00 Req Cars 0 1070 0 927 0	Cur Cars	Delta 0 1070 0 927

To override an actual transit time the creator only needs to activate the Plug In button for the desired field and insert a user-defined number in the Plug In field to the right of the Actual field.

The transit times are declared in days and the calculations in the fields to the bottom right are:

- Util% this is the percentage of time that the cars spend in each of the transit time categories and will total to 100% at the bottom.
- **Req Cars** this is the required number of car needed to service each portion of the transit time and based on the Period Vol to be moved and the period it is to be moved in. The bottom number is the total number of cars in all categories.
- **Cur Cars** based upon the fleet and or business group defined in the query this is the current number of cars available to move the Period Vol for the defined period. The bottom number is the total number of cars in all categories.
- **Delta** this is the difference between the Req Cars and the Cur Cars. The bottom number is the variant total number of cars in all categories.

The following is an example of a fleet sizing analysis that can be performed by using all Plug in data:

RT Fleet Sizing Analysis

Entity Period Transit Time Date Range	Que	ery Name:	TESTING ZERO			User Name	KELLYA		
Fleet 00000 ZERO TESTING Bus Grp 1 WARREN Unit of Measure: LBS 01 BAYWAY CHEM PLANT 06 BR FUELS 203 ESCOREZ (E-1310) 203 ESCOREZ (E-2203.C 274 PAKTANK-DEER PARK 275 PAKTANK-GALENA PAR 2596 ESCOREZ (E-2510) 2596 ESCOREZ (E-2596) 2AR JOLIET TRANSFER F Unit of Measure: LBS riod Vol (units/period): 4,397,656,397.00 Use Rateably Out of Service 0-100%: 20.00 Actual @ Plugin ak Volume (units): 566,471,366.00 Out of Service 0-100%: 20.00 Actual @ Plugin rg Loaded Capacity: 214,095.00 Out of Service 0-100%: 20.00 Actual @ Plugin Transit Out: 0 7 Actual @ Plugin 13.00 499 9 499 Transit In: 0 15 Actual @ Plugin 23.00 856 0 856 Orig Hold: 0 12 Actual @ Plugin 23.00 856 0 856 Orig Hold:	Enti By Flee By Busi By Flee	t ity et siness Group et/Business	Group	Period Month Quarte Year	r E	Transit Time D Begin Date: 00 End Date: 00	ate Range 1/00/00 1/00/00	System Wid	e Query
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Transit Out: 0 7 O Actual @ Plugin 13.00 499 0 499 Transit In: 0 15 O Actual @ Plugin 29.00 1070 0 1070 Cust Hold: 0 12 O Actual @ Plugin 23.00 856 0 856 Orig Hold: 0 13 O Actual @ Plugin 25.00 927 0 927 Lease Track Hold: 0 5 O Actual @ Plugin 10.00 357 0 927	riod Vol (units/p ak Volume (unit	785 CEN period): 4 its): 3	397,656,397.00 56,471,366.00	2AR	JOLIET TRANSFE	R F 🗸	20.00	O Actual	Igin
Cust Hold: D 12 Actual © Plugin 23.00 856 D 856 Orig Hold: 0 13 Actual © Plugin 25.00 927 0 927 Lease Track Hold: 0 5 O Actual © Plugin 10.00 357	37 eriod Vol (units/p eak Volume (unit /g Loaded Capac	785 CEN period): 4 ts): 3 city: 2	397,656,397.00 56,471,366.00 14,095.00 Actual (days (trip)	Use Ra Use Car Out of Set	JOLIET TRANSFE	Litti%	20.00 Reg Cars	○ Actual	igin Delta
Orig Hold: 0 13 Actual Plugin 25.00 927 0 927 Lease Track Hold: 5 Actual Plugin 10.00 357 10.00 357	37/ eriod Vol (units/p eak Volume (unit vg Loaded Capac Transit O Transit In	period): 4 ts): 3 city: 2 Dut:	397,656,397.00 56,471,366.00 14,095.00 Actual (days /trip) 0	2AR Use Ra Out of Ser Plugin (days/trip) 7	JOLIET TRANSFE teably rvice 0-100%: 0 Use	Util% 13.00 29.00	20.00 Req Cars 499	Cur Cars	igin Delta 499
Lease Track Hold: 0 5 OActual OPlugin 10.00 357	37 riod Vol (units/p :ak Volume (unit rg Loaded Capac Transit On Transit In Cust Hold	period): 4 ts): 3 city: 2 but: n: d:	397,656,397.00 56,471,366.00 14,095.00 Actual (days /trip) 0 0 0	2AR Use Ra Out of Ser Plugin (days/trip) 7 15 12	JOLIET TRANSFE teably troice 0-100%: 0 Use O Actual O Plugin O Actual O Plugin O Actual O Plugin	Util% 13.00 29.00 23.00	20.00 Req Cars 499 1070 856	Cur Cars	Delta 499 1070 856
T-b-l 0.00 52.00 100.00 2200	37 eriod Vol (units/g sak Volume (unit rg Loaded Capac Transit Or Transit In Cust Hold Orig Hold:	res CEN period): 4 ts): 3 city: 2 out: 1 n: 1 l: 1	397,656,397.00 397,656,397.00 56,471,366.00 14,095.00 Actual (days /trip) 0 0 0 0	2AR Use Ra Out of Ser Plugin (days/trip) 7 15 12 13	JOLIET TRANSFE teably Use O Actual O Plugin Actual O Plugin Actual O Plugin Actual O Plugin Actual O Plugin	Util% 13.00 29.00 23.00 25.00	20.00 Req Cars [499 [1070] 856 [927]	Actual Plu Cur Cars 0 0 0 0 0 0	Delta 499 1070 856 927

This query constitutes the simplest calculation available and provides only a Req Car amount from the minimum required detail of Period Vol, Avg Loaded Capacity.

This can be expanded one level by adding a Fleet and or Business Group to get a Cur Car and Delta comparison as seen here:

