

Values Across All Replications

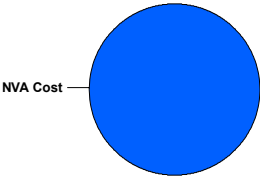
HACKATON PAE

Replications: 100      Time Units: Hours

Key Performance Indicators

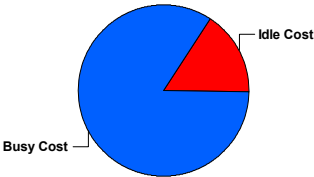
All Entities

	Average
Non-Value Added Cost	2,123,960,456
Other Cost	0
Transfer Cost	0
Value Added Cost	0
Wait Cost	0
Total Cost	2,123,960,456



All Resources

	Average
Busy Cost	2,123,960,456 *
Idle Cost	411,016,298
Usage Cost	0



Total Cost 2,534,976,754

\* these costs are included in Entity Costs above.

System

	Average
Total Cost	2,534,976,754
Number Out	15,563

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Entity

Time

VA Time	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	0.00	0.00	0.00	0.00	0.00	0.00
Crudo pesado	0.00	0.00	0.00	0.00	0.00	0.00
NVA Time	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	52.4474	0.09	51.4432	53.4753	24.0000	276.17
Crudo pesado	160.62	0.81	153.49	172.96	117.31	367.83
Wait Time	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	76.3089	0.31	72.4233	79.3810	6.0167	3346.71
Crudo pesado	406.19	3.29	379.82	448.55	180.19	7616.64
Transfer Time	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	0.00	0.00	0.00	0.00	0.00	0.00
Crudo pesado	0.00	0.00	0.00	0.00	0.00	0.00
Other Time	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	0.00	0.00	0.00	0.00	0.00	0.00
Crudo pesado	0.00	0.00	0.00	0.00	0.00	0.00
Total Time	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	91.3225	0.19	88.8176	93.1599	30.0167	602.21
Crudo pesado	264.08	0.55	258.27	271.01	210.02	666.02

Cost

VA Cost	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	0.00	0.00	0.00	0.00	0.00	0.00
Crudo pesado	0.00	0.00	0.00	0.00	0.00	0.00
NVA Cost	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	112154.23	271.04	109413.62	115181.01	0.00	762221.06
Crudo pesado	430821.62	2,318.76	409759.46	464626.64	257535.94	1015223

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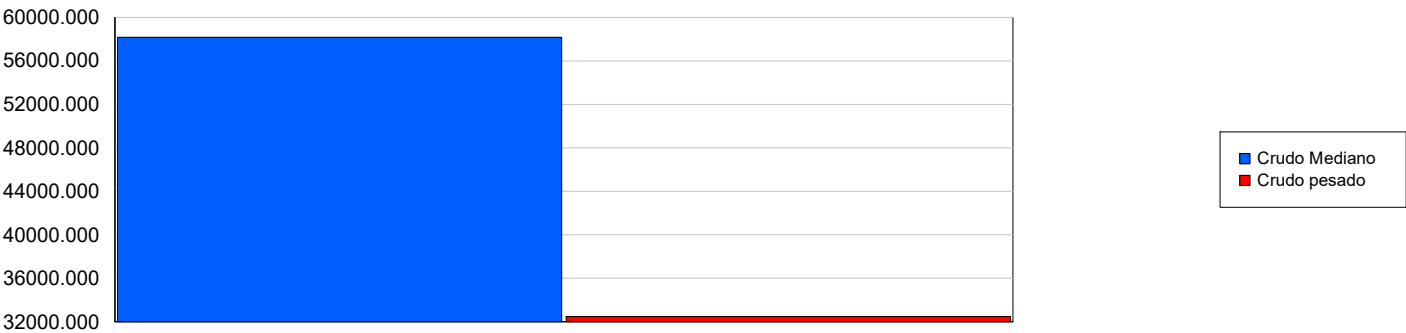
Entity

Cost

Wait Cost						
	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	0.00	0.00	0.00	0.00	0.00	0.00
Crudo pesado	0.00	0.00	0.00	0.00	0.00	0.00
Other Cost						
	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	0.00	0.00	0.00	0.00	0.00	0.00
Crudo pesado	0.00	0.00	0.00	0.00	0.00	0.00
Transfer Cost						
	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	0.00	0.00	0.00	0.00	0.00	0.00
Crudo pesado	0.00	0.00	0.00	0.00	0.00	0.00
Total Cost						
	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	112154.23	271.04	109413.62	115181.01	0.00	762221.06
Crudo pesado	430821.62	2,318.76	409759.46	464626.64	257535.94	1015223

Other

Number In				
	Average	Half Width	Minimum Average	Maximum Average
Crudo Mediano	58182.33	10.41	58020.00	58316.00
Crudo pesado	32493.25	10.12	32364.00	32638.00



Number Out				
	Average	Half Width	Minimum Average	Maximum Average
Crudo Mediano	58166.95	10.40	58005.00	58300.00
Crudo pesado	32453.12	10.17	32329.00	32595.00

Values Across All Replications

HACKATON PAE

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Entity

Other

WIP	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	14.4079	0.00	14.3679	14.4473	0.00	28.0000
Crudo pesado	35.5569	0.01	35.4526	35.6937	0.00	104.00

Values Across All Replications

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Queue

Time

Waiting Time	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Batch Cor Pr.Queue	35.7930	0.03	35.4888	36.1265	0.00	168.00
Batch Land.Queue	0.01666197	0.00	0.01664804	0.01666667	0.00	0.01666667
Batch ol PR.Queue	72.0000	0.00	72.0000	72.0000	0.00	144.00
Batch sea a sur.Queue	7.0459	0.01	6.9433	7.1297	0.00	77.9833
Charge Transport and Discharge.Queue	0.03316871	0.00	0.01079922	0.07379707	0.00	94.2270
Hold until 3.Queue	0.5487	0.01	0.4690	0.6549	0.00	73.1658
Hold until 5.Queue	22.5356	0.02	22.2437	22.7710	0.00	29.9833
Hub Caleta Cordova.Queue	2.9474	0.08	2.0110	4.3326	0.00	522.12
Hub Caleta Oliva.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Cordoba free.Queue	0.01132187	0.01	0.00	0.2410	0.00	258.12
Hub Oliva free.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Puerto Rosales.Queue	0.00232882	0.00	0.00007228	0.01206700	0.00	18.0167
Land transport.Queue	17.8664	0.00	17.8314	17.8942	0.00	47.9833
Transport Cord a PR and travel back.Queue	0.05645073	0.00	0.01344857	0.1346	0.00	52.5044
Transport Oliva a PR and travel back.Queue	0.02303610	0.00	0.00172953	0.08183551	0.00	74.0119

Cost

Values Across All Replications

HACKATON PAE

Replications: 100      Time Units: Hours

Queue

Cost

Waiting Cost	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Batch Cor Pr.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Batch Land.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Batch ol PR.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Batch sea a sur.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Charge Transport and Discharge.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hold until 3.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hold until 5.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Caleta Cordova.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Caleta Oliva.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Cordoba free.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Oliva free.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Puerto Rosales.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Land transport.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Transport Cord a PR and travel back.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Transport Oliva a PR and travel back.Queue	0.00	0.00	0.00	0.00	0.00	0.00

Other

## HACKATON PAE

Replications: 100 Time Units: Hours

## Queue

## Other

Number Waiting	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Batch Cor Pr.Queue	2.9826	0.00	2.9572	3.0105	0.00	7.0000
Batch Cord PR Afra.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Batch Land.Queue	0.00071607	0.00	0.00071224	0.00072065	0.00	5.0000
Batch ol PR.Queue	3.0004	0.00	3.0004	3.0004	0.00	7.0000
Batch Olivia PR Afra.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Batch sea a sur.Queue	0.9974	0.00	0.9835	1.0096	0.00	3.0000
Charge Transport and Discharge.Queue	0.00156500	0.00	0.00050963	0.00348135	0.00	2.0000
Hold until 3.Queue	0.07767979	0.00	0.06649002	0.0925	0.00	15.0000
Hold until 5.Queue	0.9686	0.00	0.9621	0.9737	0.00	2.0000
Hub Caleta Cordova.Queue	0.2459	0.01	0.1676	0.3611	0.00	22.0000
Hub Caleta Oliva.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Cordoba free.Queue	0.00094355	0.00	0.00	0.02008334	0.00	22.0000
Hub Oliva free.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Puerto Rosales.Queue	0.00042978	0.00	0.00001334	0.00222709	0.00	6.0000
Land transport.Queue	0.7445	0.00	0.7430	0.7457	0.00	2.0000
Transport Cord a PR and travel back AFRA.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Transport Cord a PR and travel back.Queue	0.00067369	0.00	0.00016020	0.00160442	0.00	4.0000
Transport Oliva a PR and travel back.Queue	0.00013714	0.00	0.00001030	0.00048718	0.00	1.0000
Transport Olivia a PR and travel back AFRA.Queue	0.00	0.00	0.00	0.00	0.00	0.00

Values Across All Replications

HACKATON PAE

Replications: 100      Time Units: Hours

Resource

Usage

Instantaneous Utilization	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Aframax	0.00	0.00	0.00	0.00	0.00	0.00
Camion	1.0000	0.00	1.0000	1.0000	0.00	1.0000
Panamax	0.7322	0.00	0.7310	0.7330	0.00	1.0000
Puerto Cordova	0.00	0.00	0.00	0.00	0.00	0.00
Puerto Oliva	0.00	0.00	0.00	0.00	0.00	0.00
Number Busy	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Aframax	0.00	0.00	0.00	0.00	0.00	0.00
Camion	1.0000	0.00	1.0000	1.0000	0.00	1.0000
Panamax	4.3932	0.00	4.3860	4.3983	0.00	6.0000
Puerto Cordova	0.00	0.00	0.00	0.00	0.00	0.00
Puerto Oliva	0.00	0.00	0.00	0.00	0.00	0.00
Number Scheduled	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Aframax	0.00	0.00	0.00	0.00	0.00	0.00
Camion	1.0000	0.00	1.0000	1.0000	1.0000	1.0000
Panamax	6.0000	0.00	6.0000	6.0000	6.0000	6.0000
Puerto Cordova	1.0000	0.00	1.0000	1.0000	1.0000	1.0000
Puerto Oliva	1.0000	0.00	1.0000	1.0000	1.0000	1.0000



Values Across All Replications

HACKATON PAE

Replications: 100      Time Units: Hours

Resource

Usage

Scheduled Utilization	Average	Half Width	Minimum Average	Maximum Average
Aframax	0.00	0.00	0.00	0.00
Camion	1.0000	0.00	1.0000	1.0000
Panamax	0.7322	0.00	0.7310	0.7330
Puerto Cordova	0.00	0.00	0.00	0.00
Puerto Oliva	0.00	0.00	0.00	0.00



Total Number Seized	Average	Half Width	Minimum Average	Maximum Average
Aframax	0.00	0.00	0.00	0.00
Camion	7300.00	0.00	7300.00	7300.00
Panamax	11400.59	1.31	11383.00	11415.00
Puerto Cordova	0.00	0.00	0.00	0.00
Puerto Oliva	0.00	0.00	0.00	0.00



Cost

Values Across All Replications

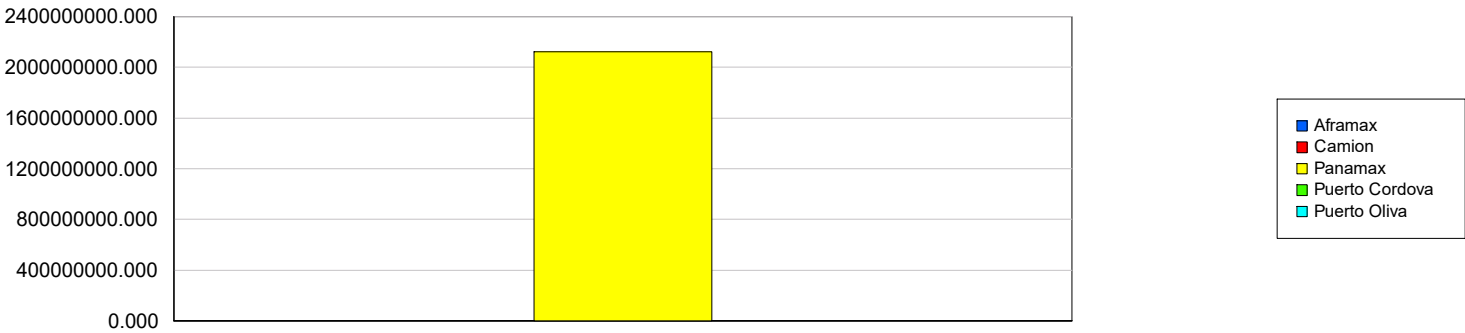
HACKATON PAE

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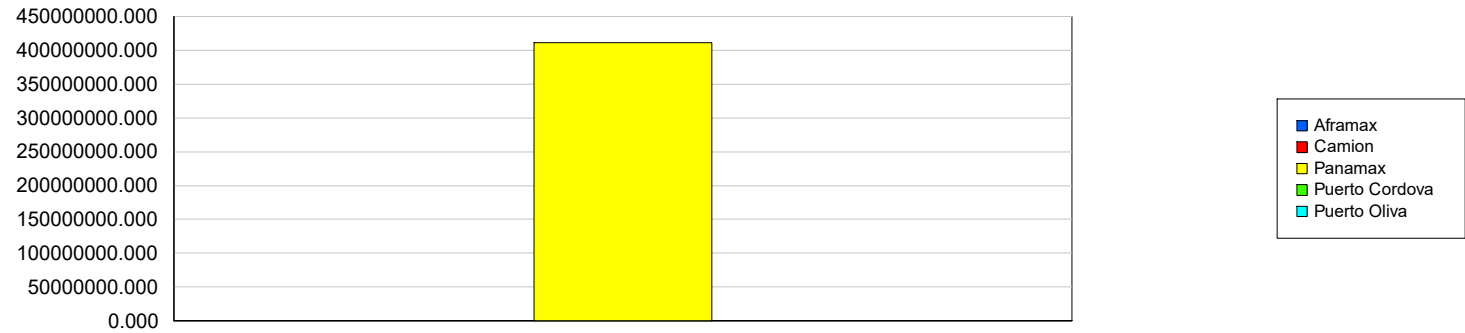
Resource

Cost

Busy Cost	Average	Half Width	Minimum Average	Maximum Average
Aframax	0.00	0.00	0.00	0.00
Camion	0.00	0.00	0.00	0.00
Panamax	***** **	254,573.20	***** **	***** **
Puerto Cordova	0.00	0.00	0.00	0.00
Puerto Oliva	0.00	0.00	0.00	0.00



Idle Cost	Average	Half Width	Minimum Average	Maximum Average
Aframax	0.00	0.00	0.00	0.00
Camion	0.00	0.00	0.00	0.00
Panamax	411016298	133,941.39	409706815	412857435
Puerto Cordova	0.00	0.00	0.00	0.00
Puerto Oliva	0.00	0.00	0.00	0.00



Values Across All Replications

HACKATON PAE

Replications: 100      Time Units: Hours

Resource

Cost

Usage Cost	Average	Half Width	Minimum Average	Maximum Average
Aframax	0.00	0.00	0.00	0.00
Camion	0.00	0.00	0.00	0.00
Panamax	0.00	0.00	0.00	0.00
Puerto Cordova	0.00	0.00	0.00	0.00
Puerto Oliva	0.00	0.00	0.00	0.00