Values Across All Replications
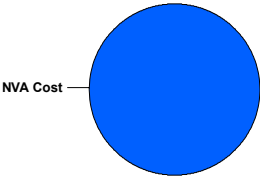
HACKATON PAE

Replications: 100   Time Units: Hours

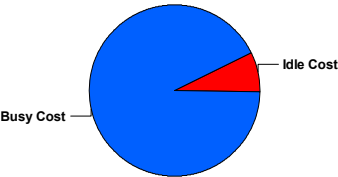# Key Performance Indicators

All Entities

	Average
Non-Value Added Cost	2,178,511,371
Other Cost	0
Transfer Cost	0
Value Added Cost	0
Wait Cost	0
Total Cost	2,178,511,371

NVA Cost

All Resources

	Average
Busy Cost	2,178,511,371 *
Idle Cost	177,459,732
Usage Cost	0
Total Cost	2,355,971,103

Idle Cost

Busy Cost

   * *these costs are included in Entity Costs above.*

System

	Average
Total Cost	2,355,971,103
Number Out	15,184

HACKATON PAE

Replications:	100	Time Units:	Hours

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	52.6512	0.04	52.2121	53.3556	24.0000	277.38
Crudo pesado	153.48	0.23	150.47	157.04	117.31	367.38

Wait Time

	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	96.0173	0.21	93.1858	98.4843	6.0167	6691.60
Crudo pesado	552.41	1.09	542.60	567.05	180.28	6620.85

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	100.67	0.10	99.47	101.62	30.0167	654.02
Crudo pesado	310.48	0.18	308.42	312.40	210.02	702.02

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	114253.28	137.06	112884.71	116508.39	0.00	801089.97
Crudo pesado	416514.05	787.31	406961.72	428109.12	257523.08	1055476

HACKATON PAE

Replications: 100   Time Units: Hours

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	114253.28	137.06	112884.71	116508.39	0.00	801089.97
Crudo pesado	416514.05	787.31	406961.72	428109.12	257523.08	1055476

Other

Number In

	Average	Half Width	Minimum Average	Maximum Average
Crudo Mediano	57494.62	8.12	57396.00	57598.00
Crudo pesado	33571.53	6.81	33487.00	33657.00
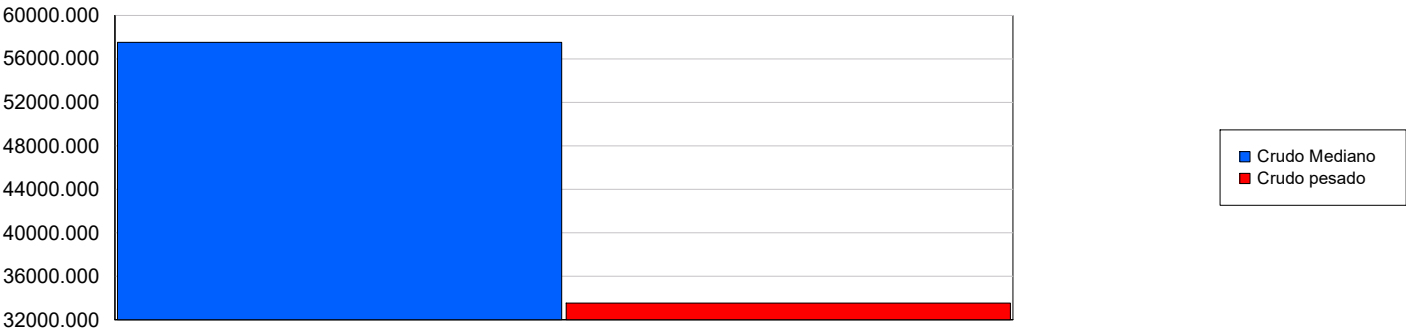
Number Out

	Average	Half Width	Minimum Average	Maximum Average
Crudo Mediano	57478.32	8.12	57381.00	57580.00
Crudo pesado	33529.76	6.93	33450.00	33624.00

HACKATON PAE

Replications: 100   Time Units: Hours

Entity

Other

WIP

	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Crudo Mediano	15.2759	0.00	15.2349	15.3284	0.00	29.0000
Crudo pesado	40.7216	0.01	40.5349	40.9084	0.00	102.00

HACKATON PAE

Replications: 100   Time Units: Hours

Queue

Time

Waiting Time	Average	Half Width	Minimum Average	Maximum Average	Minimum Value	Maximum Value
Batch Cor Pr.Queue	56.8156	0.09	55.8453	57.8448	0.00	168.00
Batch Cord PR Afra.Queue	55.2041	0.13	53.4164	57.2901	0.00	168.00
Batch Land.Queue	0.01658892	0.00	0.01652094	0.01665604	0.00	0.01666667
Batch ol PR.Queue	80.6254	0.10	79.0576	81.9307	0.00	168.00
Batch Olivia PR Afra.Queue	119.25	0.24	116.16	122.06	0.00	168.00
Batch sea a sur.Queue	6.0203	0.01	5.9279	6.1094	0.00	84.0000
Charge Transport and Discharge.Queue	6.4079	0.02	6.1623	6.6331	0.00	132.85
Hold until 3.Queue	0.8725	0.01	0.6777	1.0758	0.00	72.0000
Hold until 5.Queue	18.6267	0.02	18.2429	18.9232	0.00	29.9833
Hub Caleta Cordova.Queue	2.9945	0.08	2.3345	4.3513	0.00	543.44
Hub Caleta Oliva.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Cordoba free.Queue	0.01255504	0.01	0.00	0.2332	0.00	279.44
Hub Oliva free.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Puerto Rosales.Queue	0.7789	0.00	0.7287	0.8227	0.00	42.0167
Land transport.Queue	19.4195	0.01	19.3518	19.5163	0.00	47.9833
Transport Cord a PR and travel back AFRA.Queue	0.8210	0.07	0.01251294	1.7464	0.00	103.73
Transport Cord a PR and travel back.Queue	5.4150	0.05	4.8754	6.0340	0.00	100.49
Transport Oliva a PR and travel back.Queue	5.2979	0.07	4.3794	6.0263	0.00	62.7085
Transport Olivia a PR and travel back AFRA.Queue	31.0205	0.22	27.9086	34.9395	0.00	102.56

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 Cord PR Afra.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 Olivia PR Afra.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 AFRA.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
Transport Olivia a PR and travel back AFRA.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	2.9436	0.00	2.8897	2.9905	0.00	7.0000
Batch Cord PR Afra.Queue	1.7402	0.00	1.6918	1.7874	0.00	10.0000
Batch Land.Queue	0.00084495	0.00	0.00083568	0.00085472	0.00	5.0000
Batch ol PR.Queue	2.1734	0.00	2.1516	2.1933	0.00	7.0000
Batch Olivia PR Afra.Queue	1.7534	0.00	1.7037	1.8199	0.00	8.0000
Batch sea a sur.Queue	0.8131	0.00	0.8022	0.8266	0.00	3.0000
Charge Transport and Discharge.Queue	0.2885	0.00	0.2779	0.2982	0.00	3.0000
Hold until 3.Queue	0.1178	0.00	0.0917	0.1448	0.00	14.0000
Hold until 5.Queue	0.9488	0.00	0.9381	0.9594	0.00	2.0000
Hub Caleta Cordova.Queue	0.2496	0.01	0.1946	0.3626	0.00	22.0000
Hub Caleta Oliva.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Cordoba free.Queue	0.00104633	0.00	0.00	0.01943519	0.00	24.0000
Hub Oliva free.Queue	0.00	0.00	0.00	0.00	0.00	0.00
Hub Puerto Rosales.Queue	0.1449	0.00	0.1355	0.1530	0.00	9.0000
Land transport.Queue	0.8092	0.00	0.8064	0.8132	0.00	2.0000
Transport Cord a PR and travel back AFRA.Queue	0.00267130	0.00	0.00004057	0.00571160	0.00	1.0000
Transport Cord a PR and travel back.Queue	0.04378978	0.00	0.03932064	0.04904357	0.00	5.0000
Transport Oliva a PR and travel back.Queue	0.02549684	0.00	0.02109687	0.02896189	0.00	1.0000
Transport Olivia a PR and travel back AFRA.Queue	0.0990	0.00	0.08936502	0.1112	0.00	1.0000

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	0.6389	0.00	0.6315	0.6439	0.00	1.0000
Camion	1.0000	0.00	1.0000	1.0000	0.00	1.0000
Panamax	0.9425	0.00	0.9403	0.9447	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	0.6389	0.00	0.6315	0.6439	0.00	1.0000
Camion	1.0000	0.00	1.0000	1.0000	0.00	1.0000
Panamax	3.7700	0.00	3.7612	3.7790	0.00	4.0000
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	1.0000	0.00	1.0000	1.0000	1.0000	1.0000
Camion	1.0000	0.00	1.0000	1.0000	1.0000	1.0000
Panamax	4.0000	0.00	4.0000	4.0000	4.0000	4.0000
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

HACKATON PAE

Replications: 100   Time Units: Hours

Resource

Usage

Scheduled Utilization

	Average	Half Width	Minimum Average	Maximum Average
Aframax	0.6389	0.00	0.6315	0.6439
Camion	1.0000	0.00	1.0000	1.0000
Panamax	0.9425	0.00	0.9403	0.9447
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	1129.08	0.71	1116.00	1137.00
Camion	7300.00	0.00	7300.00	7300.00
Panamax	10146.95	2.34	10117.00	10180.00
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

Replications: 100 · Time Units: Hours

Resource

Cost

Busy Cost

	Average	Half Width	Minimum Average	Maximum Average
Aframax	355859469	229,329.92	351558338	358731776
Camion	0.00	0.00	0.00	0.00
Panamax	**********.**	386,043.76	**********.**	**********.**
Puerto Cordova	0.00	0.00	0.00	0.00
Puerto Oliva	0.00	0.00	0.00	0.00
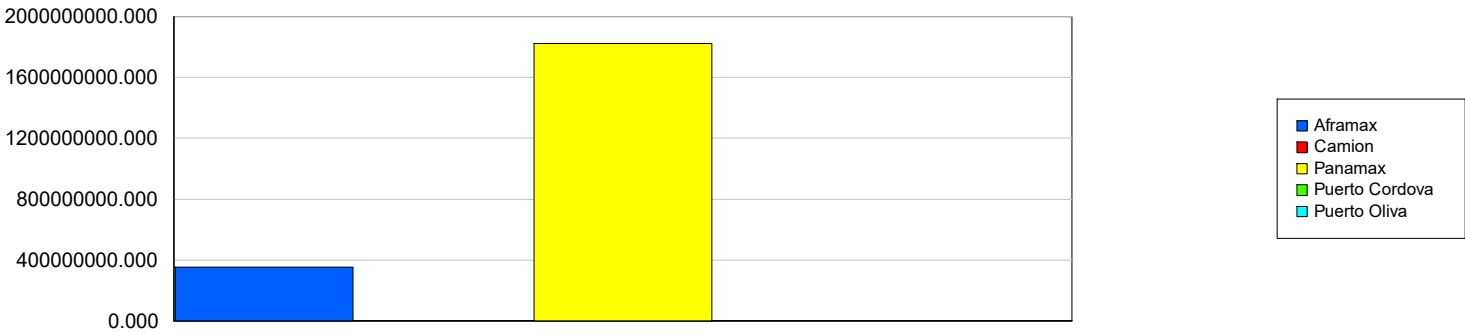
Idle Cost

	Average	Half Width	Minimum Average	Maximum Average
Aframax	118625221	132,992.34	116983623	121055744
Camion	0.00	0.00	0.00	0.00
Panamax	58834511	204,582.46	56542148	61088036
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