

Cuadro A.4.1 Resultados de la simulación del Puerto de Veracruz para el periodo Julio 1998-Junio 1999: Situación sin proyecto. Valores esperados medios del tiempo de espera, operación en sitio y STAT por trimestre.

Código	Espera 1 SP	Sitio 1 SP	Stat1 SP	Espera 2 SP	Sitio 2 SP	Stat2 SP	Espera 3 SP	Stat3 SP	Stat3 SP	Espera 4 SP	Sitio 4 SP	Stat4 SP
AGI	12.27	16.97	3,982,488	3.87	6.60	1,425,800	4.81	1,824,400	7.18	18.15	18.15	3,448,859
ANA	2.71	6.03	850,872	1.40	2.00	329,967	3.18	9.09	1,197,123	2.75	3.75	633,389
APA	8.99	15.62	2,909,919	3.20	6.23	1,109,692	3.39	4.97	982,886	4.58	9.12	1,618,336
ASO	7.78	17.28	3,265,571	2.42	5.84	1,075,432	2.68	5.06	1,005,979	4.56	9.22	1,793,928
GAR	0.00	0.00	0	5.57	17.02	1,441,822	0.00	0	7,58	44.06	44.06	3,297,400
GAS	0.00	0.00	0	0.00	0.00	0	32.68	58.62	5,931,859	0.00	0.00	0
AZU	3.30	12.58	1,046,327	7.73	4.73	807,584	5.12	10.16	1,019,307	8.76	15.24	1,555,203
GMA	8.75	19.37	2,222,637	40.38	79.86	9,398,412	2.63	3.53	477,157	24.31	20.64	3,583,817
MEL	0.05	2.87	350,152	0.00	0.00	0	0.01	4.91	591,089	1.30	15.19	1,981,898
GST	1.11	3.81	322,631	0.00	0.00	0.2.81	575,229	12.12	22.45	2,240,038		
SCA	0.00	0.00	0	16.18	16.35	2,342,123	0.00	0.00.0	0.00	0.00	0.00	0
SGI	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	18.29	32.07	3,988,247
SNA	23.56	20.08	3,142,271	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0
GSO	34.25	76.27	9,632,018	124.60	125.19	22,053,071	94.12	98.57	16,795,744	51.58	66.08	10,233,926
SSO	7.08	84.96	7,569,576	11.29	20.36	2,605,448	17.67	49.37	5,610,388	30.92	105.65	11,389,865
GTR	52.21	107.07	13,980,716	179.68	176.08	31,526,514	53.16	49.68	9,003,595	97.69	141.27	20,797,641
APE	0.00	0.00	0	3.01	5.91	771,038	1.64	1.48	270,233	2.52	2.73	452,941
ALU	5.34	3.53	1,009,254	2.61	2.97	636,196	4.68	8.22	1,470,587	4.37	5.86	1,166,715
ACE	4.64	4.98	876,582	7.24	11.40	1,689,077	4.74	7.46	1,113,428	14.78	13.08	2,541,359
ALK	0.00	0.00	0	2.51	2.84	472,060	3.61	5.46	815,471	3.34	5.26	757,669
GRAL	69.98	13.88	7,333,765	171.02	14.70	16,234,663	84.16	9.01	8,122,560	36.70	3.72	3,526,262
CONT	49.07	83.12	21,497,743	73.13	92.07	26,978,396	86.61	82.96	27,735,609	69.71	92.20	26,408,832
FERT	4.34	4.14	634,533	17.10	44.45	4,633,172	22.10	64.80	6,550,749	13.31	36.74	3,772,522
PAP	5.81	4.61	875,194	9.97	1.85	993,292	15.79	13.65	2,476,491	0.08	0.12	17,410
PAR	5.06	3.86	1,114,276	4.79	4.76	1,192,295	3.95	2.21	465,045	3.76	3.83	945,558
QUI	16.58	31.07	5,416,650	7.04	20.04	3,081,200	3.94	4.85	994,867	3.60	8.27	1,350,032
SEBO	7.41	11.80	2,469,486	3.16	3.56	863,841	3.76	8.06	1,514,216	1.66	3.44	658,995
TUBO	3.23	31.72	3,067,023	9.75	26.96	3,197,796	12.50	34.64	4,114,421	15.03	24.53	3,441,591
TOTAL	333.52	575.68	93,569,684	707.68	691.78	134,867,892	469.74	552.06	100,958,435	440.70	702.67	111,602,487

Fuente: Modelo de simulación portuaria.

Cuadro A.4.2 Resultados de la simulación del Puerto de Veracruz para el Periodo Julio 1998: Situación con proyecto.
Valores esperados medios del tiempo de espera, operación en sitio y STAT por trimestre.

Código	Espera 1 CP	SITIO 1 CP	STST1 CP	ESPERA 2 CP	SITIO 2 CP	STAT2 CP	ESPERA 3 CP	SITIO3 CP	STAT3 CP	ESPERA 4 CP	SITIO 4 CP	STAT4 CP
AGI	2.97	13.11	2,188,970	1.21	5.00	843,979	1.65	6.55	1,116,154	2.29	14.02	2,219,878
ANA	0.62	2.70	322,013	0.61	1.18	172,978	1.68	3.43	498,110	1.08	1.69	269,498
APA	2.87	7.89	1,262,695	1.35	2.78	484,855	1.52	2.47	466,307	1.93	4.78	788,096
ASO	2.01	9.92	1,541,730	0.77	3.22	515,961	0.89	2.88	486,660	1.61	5.49	918,017
GAR	0.00	0.00	0	3.13	9.43	810,345	0.00	0.00	0	3.23	21.78	1,617,736
GAS	0.00	0.00	0	0.00	0.00	0	28.44	58.72	5,665,704	0.00	0.00	0
AZU	2.00	5.05	456,944	3.76	1.30	328,047	2.95	3.91	444,498	3.59	5.52	590,358
GMA	6.55	16.29	1,839,493	26.05	63.50	7,174,415	1.42	3.08	356,503	17.55	16.80	2,807,362
MEL	0.45	1.69	234,089	0.00	0.00	0	0.57	2.80	368,889	1.55	8.70	1,122,974
GST	0.64	2.68	215,580	0.00	0.00	0	1.48	3.27	307,815	3.59	9.77	866,103
SCA	0.00	0.00	0	5.87	11.75	1,268,498	0.00	0.00	0	0.00	0.00	0
SGI	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	14.15	32.03	3,656,990
SNA	21.54	19.85	2,980,154	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0
GSO	30.64	67.62	8,648,089	107.48	108.91	19,337,417	76.91	88.14	14,565,491	37036	57.54	8,366,134
SSO	4096	61.08	5,563,401	6.78	14.01	1,749,130	12.64	37.38	4,280,147	19.04	75.85	8,138,822
GTR	47.04	98.54	12,914,844	159.18	28,613,568	45.13	45.54	8,052,535	74.51	74.51	127.29	17,882,605
APE	0.00	0.00	0	1.95	5086	675,510	1.01	1.49	215,792	1.59	2.72	371,968
ALU	2.60	3.52	696,881	1.62	2.96	521,877	3.46	8.21	1,330,746	2.79	5.85	983,591
ACE	3.13	4.98	738,900	4.96	10.78	1,409,041	3.22	7.46	975,580	8.39	13.08	1,958,874
ALK	0.00	0.00	0	1.58	2.82	387,100	2.57	5.60	719,194	2.08	5.18	637,936
GRAL	64.44	13.88	6,847,398	159.93	14.70	15,265,128	77.16	9.07	7,515,532	31.55	3.71	3,075,179
CONT	48.87	83.31	21,493,874	71.45	92.80	26,818,998	83.81	83.54	27,373,274	67.52	93.25	26,221,781
FERT	2.52	4.45	522,818	7.50	42.20	3,757,318	11.59	66.16	5,879,557	4.31	36.97	3,125,774
PAP	3.46	4.54	672,579	4.66	1.42	510,649	8.75	14.37	1,948,229	0.04	0.12	13,422
PAR	2.25	3.61	728,311	3.02	4.55	941,853	2.50	2.06	564,551	2.15	3.49	699,238
QUI	7.66	30.61	4,347,846	4.79	19.86	2,802,625	2.50	4.79	825,398	2.23	8.15	1,179,955
SEBO	3.51	11.82	1,946,157	1.79	3.54	684,519	2.20	8.06	1,311,960	0.82	3.41	542,512
TUBO	2.40	31.13	2,945,966	5.19	25.81	2,710,687	6.68	34.35	3,595,087	6.66	23.87	2,671,925
TOTAL	263.13	498.26	79,126,731	584.50	607.58	117,784,510	380.74	503.34	88,863,716	311.59	581.04	90,726,728

Fuente: Modelo de simulación portuaria

Cuadro A.4.3 Resultados de la simulación del Puerto de Veracruz para el periodo Julio 1998-Junio 1999. Situación sin y con proyecto. Valores esperados medios de las toneladas y los barcos arribados por trimestre.

Código	TONELADAS1	TONELADAS2	TONELADAS3	TONELADAS4	BARCOS1	BARCOS2	BARCOS3	BARCOS4
AGI	54,021	21,212	26,564	58,136	7	3	4	7
ANA	7,292	2,360	10,498	4,391	3	1	4	2
APA	26,568	10,869	8,236	15,813	9	4	3	6
ASO	36,776	12,552	11,455	19,633	6	2	2	4
GAR	0	6,444	0	19,521	0	2	0	4
GAS	0	0	13,696	0	0	0	3	0
AZU	13,245	2,895	10,733	14,462	2	1	2	2
GMA	41,760	162,875	4,811	35,069	3	10	0	3
MEL	12,643	0	21,649	63,005	2	0	2	6
GST	2,412	0	3,337	11,811	1	0	1	4
SCA	0	24,697	0	0	0	2	0	0
SGI	0	0	0	46,567	0	0	0	2
SNA	27,712	0	0	0	2	0	0	0
GSO	143,466	215,391	179,075	119,838	8	12	10	7
SSO	117,369	23,685	62,279	127,212	6	2	4	7
GTR	161,445	239,114	75,090	204,096	10	14	5	12
APE	0	14,495	3,662	6,695	0	4	1	2
ALU	10,676	8,518	20,730	16,813	4	3	7	6
ACE	6,514	11,871	9,713	15,968	2	2	2	3
ALK	0	7,705	14,951	14,498	0	3	5	4
GRAL	12,240	11,405	8,199	3,153	6	6	4	2
CONT	605,608	681,916	555,472	682,777	91	103	84	103
FERT	3,223	29,564	48,195	26,691	1	4	6	3
PAP	3,803	741	10,037	93	2	1	4	0
PAR	7,817	10,489	4,675	8,035	3	5	2	3
QUI	63,932	41,852	9,568	17,289	22	15	4	6
SEBO	29,868	8,794	19359	8,582	5	2	3	2
TUBO	21,709	17,053	20,878	16,595	7	6	6	5
Total	1,410,099	1,566,498	1,153,135	1,556,733	201	206	169	205

Fuente: Modelo de simulación portuaria

Cuadro A.4.4 Resultados de ña simulación del Puerto de Veracruz para el periodo Julio 1998-Junio 1999: Situación sin y con proyecto. Valores esperados medios del STAT y ahorro en STAT, y desviación estándar por tipo de nave-carga. (Pesos junio 1996).

Código	MEDIA STAT SP	DESVSP	MEDIA STAT CP	DESVCP	MEDIA AHORRO STAT	DESV AHORRO
AGI	10,681,546	1,463,382	6,368,982	989,082	4,312,565	921,422
ANA	3,011,351	550,906	1,262,608	362,017	1,748,742	436,991
APA	6,620,833	1,010,326	3,001,953	603,835	3,618,880	741,115
ASO	7,140,964	1,188,183	3,462,368	728,529	3,678,596	837,918
GAR	4,739,222	1,083,175	2,428,081	1,060,593	2,311,141	1,060,640
GAS	5,931,859	3,026,929	5,665,704	2,984,191	266,155	527,995
AZU	4,428,421	977,974	1,819,847	659,307	2,608,574	841,356
GMA	15,682,023	3,177,655	12,177,774	2,588,616	3,504,250	2,358,232
MEL	2,923,139	565,311	1,725,952	654,136	1,197,186	762,256
GST	3,137,898	776,699	1,389,498	546,807	1,748,400	773,919
SCA	2,342,123	924,169	1,268,498	530,870	1,073,625	784,330
SGI	3,988,247	1,137,668	3,656,990	1,088,738	331,257	511,009
SNA	3,142,271	1,181,932	2,980,154	1,164,435	162,118	557,347
GSO	58,714,759	15,885,421	50,917,131	15,559,598	7,797,628	4,329,051
SSO	27,175,278	4,345,956	19,731,500	3,976,288	7,443,778	2,524,484
GTR	75,308,466	20,343,449	67,463,553	20,067,291	7,844,913	5,509,806
APE	1,494,212	347,075	1,263,271	286,937	230,941	150,982
ALU	4,282,752	745,324	3,533,095	614,570	749,657	352,479
ACE	6,229,446	1,451,622	5,082,395	1,171,482	1,147,050	1,078,478
ALK	2,045,201	436,924	1,744,230	354,643	300,917	192,564
GRAL	35,217,250	13,294,647	32,703,237	13,317,081	2,514,012	4,384,296
CONT	102,620,580	8,677,019	101,907,928	8,623,425	712,652	1,419,379
FERT	15,590,977	3,345,541	13,285,467	2,905,870	2,305,509	1,663,736
PAP	4,362,388	1,401,205	3,144,880	1,005,208	1,217,508	1,014,534
PAR	4,017,175	829,551	2,933,954	607,778	1,083,221	508,180
QUI	10,842,749	1,241,990	9,155,824	930,217	1,686,925	663,617
SEBO	5,506,539	921,450	4,503,148	715,910	1,003,391	514,565
TUBO	13,820,831	2,404,664	11,923,664	1,964,561	1,897,168	1,382,409
Total	440,998,498	54,140,258	376,501,685	50,688,872	64,496,813	17,797,359

Fuente: Modelo de simulación portuaria