

**Appendix B:
2020 No-Action Conditions**

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LIST OF ACRONYMS AND TERMS	
ADPT	Average Daily Port-related Traffic
ADT	Average Daily Traffic
ADTT	Average Daily Truck Traffic
ATIS	Automatic Traffic Information System
ATMS	Automatic Traffic Management System
BQE	Brooklyn Queens Expressway
BRP	Bronx River Parkway
GCP	Grand Central Parkway
ITS	Intelligent Transportation System
LIE	Long Island Expressway
MDE	Major Deegan Expressway
NEAT	Northeastern Automarine Terminal
NIA	Newark International Airport
NJTPA	North Jersey Transportation Planning Authority
NYMTC	New York Metropolitan Transportation Council
PANYNJ	Port Authority of New York and New Jersey
TBB	Triboro Bridge
TEU	Twenty-Ft Equivalent Units
TIP	Transportation Improvement Programs
TSM	Transportation System Management
TSP	Taconic State Parkway
V/C	Volume to Capacity (ratio)
VHT	Vehicle Hours Traveled
VMT	Vehicles Miles Traveled

**B.1 TRAFFIC PROJECTIONS AND PROGRAMMED AND
COMMITTED PROJECTS**

TABLE B.1-1: TOTAL PORT-RELATED TRUCK GENERATION

Terminal Description	Cargo	Units	Units/ Truck	Truck Mode Split	Total Port 2000 Units*	Total Port 2020 Units*	Annual			
							2000 Trucks	2020 Trucks		
Newark	Containers	TEUs	1.7	85.0%	408,155	808,602	204,078	517,084	404,301	1,083,718
Newark	Autos	Number	12	90.0%	375,800	365,141	28,185		27,386	
Newark	General Cargo	Tons	10	95.0%	769,000	1,499,000	73,055		142,405	
Newark	Dry Bulk Cargo	Tons	20	95.0%	2,239,878	6,219,920	106,394		295,446	
Newark	Liquid Bulk Cargo	Tons	20	90.0%	2,341,600	4,759,560	105,372		214,180	
Elizabeth	Containers	TEUs	1.7	85.0%	2,033,256	3,548,386	1,016,628	1,021,721	1,774,193	1,783,391
Elizabeth	Autos	Number	12	90.0%	67,900	122,632	5,093		9,197	
Howland Hook	Containers	TEUs	1.7	85.0%	498,399	632,259	249,200	255,506	316,129	318,167
Howland Hook	General Cargo	Tons	10	95.0%	66,382	21,448	6,306		2,038	
Global/NEAT/BMW	Containers	TEUs	1.7	85.0%	298,554	430,107	149,277	161,255	215,053	229,005
Global/NEAT/BMW	Autos	Number	12	90.0%	159,700	186,016	11,978		13,951	
North Brooklyn/Red Hook	Containers	TEUs	1.7	85.0%	68,957	180,645	34,479	105,042	90,323	116,131
North Brooklyn/Red Hook	General Cargo	Tons	10	95.0%	742,773	271,669	70,563		25,809	
South Brooklyn	General Cargo	Tons	10	95.0%	0	786,410	0	0	74,709	74,709

* MDS Transmodal total PONYNJ throughput forecasts

This table shows the trucks necessary for the movement of projected goods and not total Port related truck trips which include bob tails, repositioning of empty containers, etc.

TABLE B.1-2: YEAR 2000 CORRIDOR COMPARISON SUMMARY

Corridor	ADT	Total Trucks		Port-related Trucks		Delay
		ADTT	% of ADT	ADPT	% of ADT	VHT/ VMT
BQE	116,352	9,320	8.0%	133	0.1%	0.024
I-280	93,321	5,214	5.6%	784	0.8%	0.019
I-287 Central	77,097	8,716	11.3%	3	0.0%	0.018
I-287 North	72,101	8,390	11.6%	7	0.0%	0.022
I-287 South	103,061	7,359	7.1%	155	0.2%	0.023
I-78	88,161	10,801	12.3%	1,274	1.4%	0.019
I-80	123,867	10,514	8.5%	235	0.2%	0.029
I-87	43,495	6,317	14.5%	15	0.0%	0.016
I-87/I-287	113,221	8,098	7.2%	273	0.2%	0.022
I-95 Central	96,949	11,326	11.7%	2,036	2.1%	0.023
I-95 North	56,833	9,250	16.3%	673	1.2%	0.018
I-95 South	76,771	8,535	11.1%	1,127	1.5%	0.026
Inner Port Area	29,131	2,122	7.3%	1,597	5.5%	0.042
LIE	155,342	4,405	2.8%	374	0.2%	0.032
Lower Crossings	107,124	7,558	7.1%	196	0.2%	0.024
Manhattan Crossings	105,475	10,585	10.0%	708	0.7%	0.044
NJ 17	76,664	4,729	6.2%	154	0.2%	0.039

TABLE B.1-3: YEAR 2020 CORRIDOR COMPARISON SUMMARY

Corridor	ADT	Total Trucks		Port-related Trucks		Delay
		ADTT	% of ADT	ADPT	% of ADT	VHT/ VMT
BQE	122,102	10,218	8.4%	194	0.2%	0.024
I-280	95,080	5,865	6.2%	587	0.6%	0.019
I-287 Central	94,936	12,463	13.1%	2	0.0%	0.018
I-287 North	83,774	10,589	12.6%	541	0.7%	0.019
I-287 South	109,012	8,309	7.6%	238	0.2%	0.023
I-78	104,172	13,692	13.1%	2,131	2.1%	0.019
I-80	139,573	11,782	8.4%	365	0.3%	0.021
I-87	55,304	9,309	16.8%	24	0.0%	0.016
I-87/I-287	133,154	14,274	10.7%	406	0.3%	0.022
I-95 Central	104,209	13,864	13.3%	2,971	2.9%	0.023
I-95 North	64,701	12,320	19.0%	1,003	1.6%	0.021
I-95 South	92,550	11,624	12.6%	1,732	1.9%	0.027
Inner Port Area	29,958	2,499	8.3%	2,336	7.8%	0.046
LIE	162,324	4,333	2.7%	546	0.3%	0.032
Lower Crossings	122,146	9,456	7.7%	230	0.2%	0.024
Manhattan Crossings	119,734	12,355	10.3%	1,008	0.8%	0.045
NJ 17	85,910	5,198	6.1%	243	0.3%	0.038
NJ 17	85,910	5,198	6.1%	243	0.3%	0.038

TABLE B.1-4: PERCENTAGES OF PORT-RELATED TRUCK TRAFFIC IN MAJOR CORRIDORS

Corridor	Port-related Trucks as a % of Total Traffic	
	2000	2020
Inner Port	5.5%	7.8%
I-95 Central	2.1%	2.9%
I-78	1.5%	2.1%
I-95 South	1.5%	1.9%
I-95 North	1.2%	1.6%

TABLE B.1-5: NEWARK/ELIZABETH CONNECTORS: 2000-2020 (AVERAGE DAILY 2-WAY TOTALS)

		2000	2005	2010	2015	2020
Doremus Ave	All Traffic	10,183	10,756	11,329	11,902	12,475
	Trucks	4,728	5,260	5,794	6,326	6,859
	% of all traffic	46.4%	48.9%	51.1%	53.2%	55.0%
	Port Trucks	4,255	4,771	5,295	5,814	6,331
	% of all trucks	90.0%	90.7%	91.4%	91.9%	92.3%
Port Street (NE)	All Traffic	11,112	11,737	12,363	12,988	13,614
	Trucks	4,478	4,983	5,487	5,992	6,497
	% of all traffic	40.3%	42.5%	44.4%	46.1%	47.7%
	Port Trucks	4,030	4,522	5,014	5,506	5,998
	% of all trucks	90.0%	90.7%	91.4%	91.9%	92.3%
Corbin Street	All Traffic	19,221	20,303	21,385	22,467	23,549
	Trucks	8,056	8,964	9,872	10,780	11,688
	% of all traffic	41.9%	44.2%	46.2%	48.0%	49.6%
	Port Trucks	7,250	8,135	9,021	9,906	10,791
	% of all trucks	90.0%	90.8%	91.4%	91.9%	92.3%
McLester Street	All Traffic	15,549	16,566	17,583	18,601	19,620
	Trucks	8,385	9,330	10,275	11,220	12,165
	% of all traffic	53.9%	56.3%	58.4%	60.3%	62.0%
	Port Trucks	7,547	8,468	9,389	10,310	11,231
	% of all trucks	90.0%	90.8%	91.4%	91.9%	92.3%
North Avenue	All Traffic	20,365	21,512	22,658	23,804	24,951
	Trucks	8,273	9,206	10,139	11,071	12,004
	% of all traffic	40.6%	42.8%	44.7%	46.5%	48.1%
	Port Trucks	7,446	8,350	9,267	10,174	11,079
	% of all trucks	90.0%	90.7%	91.4%	91.9%	92.3%
Port Street (NW)	All Traffic	26,022	27,487	28,951	30,417	31,881
	Trucks	10,637	11,836	13,036	14,234	15,433
	% of all traffic	40.9%	43.1%	45.0%	46.8%	48.4%
	Port Trucks	9,573	10,735	11,915	13,081	14,245
	% of all trucks	90.0%	90.7%	91.4%	91.9%	92.3%

TABLE B.1-6: NEWARK/ELIZABETH CONNECTORS CAPACITY ASSESSMENT (V/C)

	2000	2005	2010	2015	2020
Doremus Ave	1.03	1.11	1.19	1.27	1.36
Port St (NE)	0.53	0.57	0.61	0.65	0.69
Corbin St	0.93	1.00	1.07	1.14	1.22
McLester St	0.83	0.90	0.98	1.05	1.12
North Ave	0.92	1.00	1.07	1.14	1.21
Port St (NW)	1.24	1.34	1.43	1.53	1.63

Below Capacity  Near Capacity  At Capacity  Over Capacity 

TABLE B.1-7: GLOBAL/NEAT CONNECTORS: 2000-2020 (AVERAGE DAILY 2-WAY TOTALS)

		2000	2005	2010	2015	2020
NJ 440 at Pulaski Street	All Traffic	30,000	31,689	33,377	35,066	36,755
	Trucks	2,825	2,915	3,004	3,094	3,184
	% of all traffic	9.4%	9.2%	9.0%	8.8%	8.7%
	Port Trucks	345	364	383	403	422
	% of all traffic	1.2%	1.1%	1.1%	1.1%	1.1%
	% of all trucks	12.2%	12.5%	12.7%	13.0%	13.3%
Port Jersey Boulevard	All Traffic	12,650	13,362	14,074	14,786	15,498
	Trucks	4,400	4,582	4,763	4,945	5,127
	% of all traffic	34.8%	34.3%	33.8%	33.4%	33.1%
	Port Trucks	2,070	2,185	2,301	2,416	2,532
	% of all traffic	16.4%	16.4%	16.3%	16.3%	16.3%
	% of all trucks	47.0%	47.7%	48.3%	48.9%	49.4%
Pulaski Street: W. of Port Jersey Blvd.)	All Traffic	10,350	10,933	11,515	12,098	12,680
	Trucks	2,700	2,786	2,872	2,959	3,045
	% of all traffic	26.1%	25.5%	24.9%	24.5%	24.0%
	Port Trucks	345	364	383	403	422
	% of all traffic	3.3%	3.3%	3.3%	3.3%	3.3%
	% of all trucks	12.8%	13.1%	13.3%	13.6%	13.9%
NJ 440 (S. of Prospect Avenue)	All Traffic	27,000	28,520	30,040	31,559	33,079
	Trucks	2,450	2,529	2,608	2,687	2,766
	% of all traffic	9.1%	8.9%	8.7%	8.5%	8.4%
	Port Trucks	345	364	383	403	422
	% of all traffic	1.3%	1.3%	1.3%	1.3%	1.3%
	% of all trucks	14.1%	14.4%	14.7%	15.0%	15.3%

TABLE B.1-8: GLOBAL/NEAT CONNECTORS CAPACITY ASSESSMENT (V/C)

	2000	2005	2010	2015	2020
NJ 440 at Pulaski St	0.96	1.02	1.07	1.12	1.17
Port Jersey Boulevard	1.09	1.14	1.2	1.25	1.31
Pulaski Street (W of Port Jersey Blvd)	0.81	0.85	0.89	0.93	0.97
NJ 440 (S of Prospect Avenue)	0.86	0.91	0.96	1.00	1.05

Below Capacity  Near Capacity  At Capacity  Over Capacity 

TABLE B.1-9: HOWLAND HOOK CONNECTORS: 2000-2020 (AVERAGE DAILY 2-WAY TOTALS)

		2000	2005	2010	2015	2020
Gulf Avenue (East of I-278 ramp)	All Traffic	2,175	2,297	2,420	2,542	2,665
	Trucks	750	779	808	837	866
	% of all traffic	34.5%	33.9%	33.4%	32.9%	32.5%
	Port Trucks	605	630	655	679	704
	% of all trucks	80.7%	80.9%	81.1%	81.1%	81.3%
Gulf Avenue (West of I-278 ramp)	All Traffic	4,650	4,912	5,173	5,435	5,697
	Trucks	1,175	1,220	1,265	1,310	1,355
	% of all traffic	25.3%	24.8%	24.5%	24.1%	23.8%
	Port Trucks	930	968	1,006	1,044	1,082
	% of all trucks	79.1%	79.3%	79.5%	79.7%	79.9%
Goethals Road (East of I-278 ramp)	All Traffic	2,275	2,403	2,531	2,659	2,787
	Trucks	750	779	808	837	866
	% of all traffic	33.0%	32.4%	31.9%	31.5%	31.1%
	Port Trucks	605	630	655	679	704
	% of all trucks	80.7%	80.9%	81.1%	81.1%	81.3%
Goethals Road (West of I-278 ramp)	All Traffic	4,475	4,727	4,979	5,231	5,483
	Trucks	1,175	1,220	1,265	1,310	1,355
	% of all traffic	26.3%	25.8%	25.4%	25.0%	24.7%
	Port Trucks	930	968	1,006	1,044	1,082
	% of all trucks	79.1%	79.3%	79.5%	79.7%	79.9%

TABLE B.1-10: HOWLAND HOOK CONNECTORS CAPACITY ASSESSMENT (V/C)

	2000	2005	2010	2015	2020
Gulf Avenue (East of I-278 Ramp)	0.19	0.20	0.21	0.21	0.22
Gulf Avenue (West of I-278 Ramp)	0.36	0.38	0.40	0.42	0.44
Goethals Road (East of I-278 Ramp)	0.19	0.20	0.21	0.22	0.23
Goethals Road (West of I-278 Ramp)	0.35	0.37	0.39	0.41	0.42

Below Capacity  Near Capacity  At Capacity  Over Capacity 

TABLE B.1-11: RED HOOK CONNECTORS: 2000-2020 (AVERAGE DAILY 2-WAY TOTALS)

		2000	2005	2010	2015	2020
Columbia Street (S. of BQE ramp)	All Traffic	11,475	12,121	12,767	13,413	14,059
	Trucks	700	726	753	779	805
	% of all traffic	6.1%	6.0%	5.9%	5.8%	5.7%
	Port Trucks	250	243	234	228	219
	% of all trucks	35.7%	33.5%	31.1%	29.3%	27.2%
Columbia Street (N. of BQE ramp)	All Traffic	13,150	13,890	14,630	15,371	16,111
	Trucks	475	490	506	521	536
	% of all traffic	3.6%	3.5%	3.5%	3.4%	3.3%
	Port Trucks	72	70	67	66	63
	% of all trucks	15.2%	14.3%	13.2%	12.7%	11.8%
Hamilton Avenue (WB)	All Traffic	4,325	4,568	4,812	5,055	5,299
	Trucks	925	955	985	1,016	1,046
	% of all traffic	21.4%	20.9%	20.5%	20.1%	19.7%
	Port Trucks	148	144	139	135	130
	% of all trucks	16.0%	15.1%	14.1%	13.3%	12.4%
Hamilton Avenue (EB)	All Traffic	6,580	6,950	7,321	7,691	8,062
	Trucks	1,025	1,059	1,093	1,127	1,161
	% of all traffic	15.6%	15.2%	14.9%	14.7%	14.4%
	Port Trucks	187	182	175	171	164
	% of all trucks	18.2%	17.2%	16.0%	15.2%	14.1%

TABLE B.1-12: RED HOOK CONNECTORS CAPACITY ASSESSMENT (V/C)

	2000	2005	2010	2015	2020
Columbia Street (S. of BQE ramp)	0.52	0.54	0.57	0.60	0.63
Columbia Street (N. of BQE ramp)	0.57	0.60	0.63	0.66	0.70
Hamilton Avenue (WB)	0.35	0.37	0.39	0.41	0.42
Hamilton Avenue (EB)	0.33	0.35	0.37	0.39	0.40

Below Capacity  Near Capacity  At Capacity  Over Capacity 

TABLE B.1-13: SOUTH BROOKLYN CONNECTORS: 2000-2020 (AVERAGE DAILY 2-WAY TOTALS)

		2000	2005	2010	2015	2020
39th Street (West of 2nd Street)	All Traffic	1,800	1,944	2,003	2,104	2,205
	Trucks	351	481	531	581	631
	% of all traffic	19.5%	24.7%	26.5%	27.6%	28.6%
	Port Trucks	-	120	160	200	240
	% of all trucks	0.0%	6.2%	8.0%	9.5%	10.9%
2nd Avenue (N. of Gowanus Ramp)	All Traffic	5,350	5,651	5,952	6,253	6,555
	Trucks	369	498	549	599	650
	% of all traffic	6.9%	8.8%	9.2%	9.6%	9.9%
	Port Trucks	-	119	159	199	239
	% of all trucks	0.0%	23.9%	29.0%	33.2%	36.8%
2nd Avenue (S. of Gowanus Ramp)	All Traffic	6,450	6,813	7,176	7,539	7,902
	Trucks	625	673	701	728	756
	% of all traffic	9.7%	9.9%	9.8%	9.7%	9.6%
	Port Trucks	-	30	40	50	62
	% of all trucks	0.0%	4.5%	5.7%	6.9%	8.2%

TABLE B.1-14: SOUTH BROOKLYN CONNECTORS CAPACITY ASSESSMENT (V/C)

	2000	2005	2010	2015	2020
39th Street (West of 2nd Avenue)	0.14	0.16	0.17	0.18	0.19
2nd Avenue (N. of Gowanus Ramp)	0.36	0.39	0.42	0.44	0.46
2nd Avenue (S. of Gowanus Ramp)	0.46	0.48	0.51	0.53	0.56

Below Capacity  Near Capacity  At Capacity  Over Capacity 

TABLE B.1-15: YEAR 2000 CORRIDOR COMPARISON SUMMARY

Corridor	ADT	Total Trucks		Port-related Trucks		Delay
		ADTT	% of ADT	ADPT	% of ADT	VHT/ VMT
BQE	116,352	9,320	8.0%	133	0.1%	0.024
I-280	93,321	5,214	5.6%	784	0.8%	0.019
I-287 Central	77,097	8,716	11.3%	3	0.0%	0.018
I-287 North	72,101	839	1.2%	7	0.0%	0.022
I-287 South	103,061	7,359	7.1%	155	0.2%	0.023
I-78	88,161	10,801	12.3%	1,274	1.5%	0.019
I-80	123,867	10,514	8.5%	235	0.2%	0.029
I-87	43,495	6,317	14.5%	15	0.0%	0.016
I-87/I-287	113,221	8,098	7.2%	273	0.2%	0.022
I-95 Central	96,949	11,326	11.7%	2,036	2.1%	0.023
I-95 North	56,833	9,250	16.3%	673	1.2%	0.018
I-95 South	76,771	8,535	11.1%	1,127	1.5%	0.026
Inner Port Area	29,131	2,122	7.3%	1,597	5.5%	0.042
LIE	155,342	4,405	2.8%	374	0.2%	0.032
Lower Crossings	107,124	7,558	7.1%	196	0.2%	0.024
Manhattan Crossings	105,475	10,585	10.0%	708	0.7%	0.044
NJ 17	76,664	4,729	6.2%	154	0.2%	0.039

TABLE B.1-16: YEAR 2005 CORRIDOR COMPARISON SUMMARY

Corridor	ADT	Total Trucks		Port-related Trucks		Delay
		ADTT	% of ADT	ADPT	% of ADT	VHT/ VMT
BQE	117,789	9,516	8.1%	144	0.1%	0.024
I-280	93,731	5,369	5.7%	726	0.8%	0.019
I-287 Central	81,183	9,529	11.7%	3	0.0%	0.018
I-287 North	75,019	1,205	1.6%	16	0.0%	0.038
I-287 South	104,244	7,561	7.3%	172	0.2%	0.023
I-78	91,831	11,452	12.5%	1,446	1.6%	0.019
I-80	127,531	10,812	8.5%	260	0.2%	0.027
I-87	45,930	6,958	15.2%	16	0.0%	0.016
I-87/I-287	117,676	9,327	7.9%	299	0.3%	0.022
I-95 Central	98,594	11,900	12.1%	2,213	2.2%	0.023
I-95 North	58,567	9,929	17.0%	739	1.3%	0.019
I-95 South	80,281	9,209	11.5%	1,255	1.6%	0.026
Inner Port Area	29,200	2,201	7.5%	1,753	6.0%	0.043
LIE	157,088	4,370	2.8%	409	0.3%	0.032
Lower Crossings	110,658	7,988	7.2%	203	0.2%	0.024
Manhattan Crossings	108,582	10,996	10.1%	766	0.7%	0.044
NJ 17	78,773	4,824	6.1%	159	0.2%	0.039

TABLE B.1-17: YEAR 2010 CORRIDOR COMPARISON SUMMARY

Corridor	ADT	Total Trucks		Port-related Trucks		Delay
		ADTT	% of ADT	ADPT	% of ADT	VHT/ VMT
BQE	119,227	9,731	8.2%	158	0.1%	0.024
I-280	94,161	5,528	5.9%	674	0.7%	0.019
I-287 Central	85,506	10,420	12.2%	2	0.0%	0.018
I-287 North	77,937	1,730	2.2%	36	0.1%	0.021
I-287 South	105,639	7,788	7.4%	192	0.2%	0.023
I-78	95,712	12,149	12.7%	1,644	1.7%	0.019
I-80	131,365	11,122	8.5%	290	0.2%	0.025
I-87	48,681	7,665	15.8%	19	0.0%	0.016
I-87/I-287	122,459	10,745	8.8%	330	0.3%	0.022
I-95 Central	100,345	12,512	12.5%	2,424	2.4%	0.023
I-95 North	60,448	10,663	17.6%	814	1.4%	0.020
I-95 South	84,064	9,944	11.8%	1,397	1.7%	0.026
Inner Port Area	29,363	2,291	7.8%	1,927	6.6%	0.044
LIE	158,833	4,347	2.7%	450	0.3%	0.032
Lower Crossings	114,336	8,447	7.4%	212	0.2%	0.024
Manhattan Crossings	111,985	11,428	10.2%	830	0.7%	0.044
NJ 17	81,010	4,932	6.1%	174	0.2%	0.038

TABLE B.1-18: YEAR 2015 CORRIDOR COMPARISON SUMMARY

Corridor	ADT	Total Trucks		Port-related Trucks		Delay
		ADTT	% of ADT	ADPT	% of ADT	VHT/ VMT
BQE	120,664	9,965	8.3%	175	0.1%	0.024
I-280	94,611	5,694	6.0%	628	0.7%	0.019
I-287 Central	90,086	11,396	12.7%	2	0.0%	0.018
I-287 North	80,856	2,484	3.1%	81	0.1%	0.068
I-287 South	107,232	8,037	7.5%	214	0.2%	0.023
I-78	99,819	12,895	12.9%	1,870	1.9%	0.019
I-80	135,376	11,445	8.5%	324	0.2%	0.023
I-87	51,789	8,446	16.3%	21	0.0%	0.016
I-87/I-287	127,605	12,382	9.7%	365	0.3%	0.022
I-95 Central	102,213	13,165	12.9%	2,674	2.6%	0.023
I-95 North	62,488	11,458	18.3%	902	1.4%	0.020
I-95 South	88,145	10,747	12.2%	1,555	1.8%	0.026
Inner Port Area	29,617	2,390	8.1%	2,121	7.2%	0.045
LIE	160,579	4,335	2.7%	495	0.3%	0.032
Lower Crossings	118,163	8,935	7.6%	221	0.2%	0.024
Manhattan Crossings	115,691	11,880	10.3%	903	0.8%	0.045
NJ 17	83,384	5,056	6.1%	201	0.2%	0.038

TABLE B.1-19: YEAR 2020 CORRIDOR COMPARISON SUMMARY

Corridor	ADT	Total Trucks		Port-related Trucks		Delay
		ADTT	% of ADT	ADPT	% of ADT	VHT/ VMT
BQE	122,102	10,218	8.4%	194	0.2%	0.024
I-280	95,080	5,865	6.2%	587	0.6%	0.019
I-287 Central	94,936	12,463	13.1%	2	0.0%	0.018
I-287 North	83,774	10,589	12.6%	541	0.6%	0.019
I-287 South	109,012	8,309	7.6%	238	0.2%	0.023
I-78	104,172	13,692	13.1%	2,131	2.1%	0.019
I-80	139,573	11,782	8.4%	365	0.3%	0.021
I-87	55,304	9,309	16.8%	24	0.0%	0.016
I-87/I-287	133,154	14,274	10.7%	406	0.3%	0.022
I-95 Central	104,209	13,864	13.3%	2,971	2.9%	0.023
I-95 North	64,701	12,320	19.0%	1,003	1.6%	0.021
I-95 South	92,550	11,624	12.6%	1,732	1.9%	0.027
Inner Port Area	29,958	2,499	8.3%	2,336	7.8%	0.046
LIE	162,324	4,333	2.7%	546	0.3%	0.032
Lower Crossings	122,146	9,456	7.7%	230	0.2%	0.024
Manhattan Crossings	119,734	12,355	10.3%	1,008	0.8%	0.045
NJ 17	85,910	5,198	6.1%	243	0.3%	0.038

TABLE B.1-20: LOCAL PORT ROADWAY CAPACITIES

Special Generator	Access Roads	Thru Lanes/Class	Capacity (Veh/Hr.) ¹	Peak Hour: Factor	2000 ADT Volume ²	2000 Total Truck %	2000 v/c Ratio ³	2005 ADT Volume	2005 Total Truck %	2005 v/c Ratio ³	2010 ADT Volume	2010 Total Truck %	2010 v/c Ratio ³	2015 ADT Volume	2015 Total Truck %	2015 v/c Ratio ³	2020 ADT Volume	2020 Total Truck %	2020 v/c Ratio ³
Newark/Elizabeth	Doremus	2/3	1680	10%	10,183	46.4%	1.03	10,756	48.9%	1.11	11,329	51.1%	1.19	11,902	53.2%	1.27	12,475	55.0%	1.36
	Port Street (NE)	4/3	3380	10%	11,112	40.3%	0.53	11,737	42.5%	0.57	12,363	44.4%	0.61	12,988	46.1%	0.65	13,614	47.7%	0.69
	Corbin Street	4/3	3380	10%	19,221	41.9%	0.93	20,303	44.2%	1.00	21,385	46.2%	1.07	22,467	48.0%	1.14	23,549	49.6%	1.22
	McLester Street	4/3	3380	10%	15,549	53.9%	0.83	16,566	56.3%	0.90	17,583	58.4%	0.98	18,601	60.3%	1.05	19,620	62.0%	1.12
	North Avenue	4/2	3550	10%	20,365	40.6%	0.92	21,512	42.8%	1.00	22,658	44.7%	1.07	23,804	46.5%	1.14	24,951	48.1%	1.21
	Port Street (NW)	4/3	3380	10%	26,022	40.9%	1.24	27,487	43.1%	1.34	28,951	45.0%	1.43	30,417	46.8%	1.53	31,881	48.4%	1.63
Global	NJ 440 @ Pulaski Street	4/2	3550	10%	30,000	9.4%	0.96	31,689	9.2%	1.02	33,377	9.0%	1.07	35,066	8.8%	1.12	36,755	8.7%	1.17
	Port Jersey Boulevard	2/2	1770	10%	12,650	34.8%	1.09	13,362	34.3%	1.14	14,074	33.8%	1.20	14,786	33.4%	1.25	15,498	33.1%	1.31
	Pulaski Street west of Port Jersey Blvd.	2/2	1770	10%	10,350	26.1%	0.81	10,933	25.5%	0.85	11,515	24.9%	0.89	12,098	24.5%	0.93	12,680	24.0%	0.97
	NJ 440 south of Prospect Ave	4/2	3550	10%	27,000	9.1%	0.86	28,520	8.9%	0.91	30,040	8.7%	0.96	31,559	8.5%	1.00	33,079	8.4%	1.05
Howland Hook	Gulf Avenue east of I-278 ramp	2/2	1770	10%	2,175	34.5%	0.19	2,297	33.9%	0.20	2,420	33.4%	0.21	2,542	32.9%	0.21	2,665	32.5%	0.22
	Gulf Avenue west of I-278 ramp	2/2	1770	10%	4,650	25.3%	0.36	4,912	24.8%	0.38	5,173	24.5%	0.40	5,435	24.1%	0.42	5,697	23.8%	0.44
	Goethals Road east of I-278 ramp	2/2	1770	10%	2,275	33.0%	0.19	2,403	32.4%	0.20	2,531	31.9%	0.21	2,659	31.5%	0.22	2,787	31.1%	0.23
	Goethals Road west of I-278 ramp	2/2	1770	10%	4,475	26.3%	0.35	4,727	25.8%	0.37	4,979	25.4%	0.39	5,231	25.0%	0.41	5,483	24.7%	0.42
Red Hook	Columbia Street south of BQE ramp	3/4	2430	10%	11,475	6.1%	0.52	12,121	6.0%	0.54	12,767	5.9%	0.57	13,413	5.8%	0.60	14,059	5.7%	0.63
	Columbia Street north of BQE ramp	3/4	2430	10%	13,150	3.6%	0.57	13,890	3.5%	0.60	14,630	3.5%	0.63	15,371	3.4%	0.66	16,111	3.3%	0.70
	Hamilton Avenue westbound	2/4	1620	10%	4,325	21.4%	0.35	4,568	20.9%	0.37	4,812	20.5%	0.39	5,055	20.1%	0.41	5,299	19.7%	0.42
	Hamilton Avenue eastbound	3/4	2430	10%	6,580	15.6%	0.33	6,950	15.2%	0.35	7,321	14.9%	0.37	7,691	14.7%	0.39	8,062	14.4%	0.40
South Brooklyn	39th Street west of 2nd Avenue	2/4	1620	10%	1,800	19.5%	0.14	1,944	24.7%	0.16	2,003	26.5%	0.17	2,104	27.6%	0.18	2,205	28.6%	0.19
	2nd Avenue north of Gowanus ramp	2/4	1620	10%	5,350	6.9%	0.36	5,651	8.8%	0.39	5,952	9.2%	0.42	6,253	9.6%	0.44	6,555	9.9%	0.46
	2nd Avenue south of Gowanus ramp	2/4	1620	10%	6,450	9.7%	0.46	6,813	9.9%	0.48	7,176	9.8%	0.51	7,539	9.7%	0.53	7,902	9.6%	0.56

Notes:

1. Capacities derived from Exhibit 10-7 of Highway Capacity Manual (Example Service Volumes For Urban Streets)
2. Newark/Elizabeth ADTs from ATR and intersection count volumes: PANYNJ Comprehensive Traffic Study - Port Newark/Elizabeth Marine Terminal, June 2003. Other ADTs derived from peak hour counts
3. V/C ratio = $\frac{[(Volume \times Truck\ %) \times 2.5] + (Volume \times (1 - Truck\ \%))}{Capacity}$ (2.5 used for truck to passenger vehicle equivalency based on other PANYNJ projects)

TABLE B.1-21: NJTPA – CPIP BASELINE IMPROVEMENT PROJECTS (2002 TIP)

Code/DB #	Phase – Latest Fund Yr.	Project	Project Description
98545	Final Design: Year: 2004	Garden State Parkway, Interchange 142 – Interchange with I-78	Construction of two missing ramps at the Garden State Parkway, Interchange 142 with I-78 to provide the movement from the Garden State Parkway northbound to I-78 westbound and the Garden State Parkway southbound to I-78 eastbound
035	Construction: Year: 2004	Interchange improvements of Route 1 and Route 130	Construction of a grade-separated interchange to replace the existing at-grade intersection and traffic signal at the junction of Route 1 and Route 130. Route 1 will be widened to six lanes through the interchange.
043	Construction: Year: 2005	Route 1-9, Elizabeth River Bridge replacement, widening	The existing structure, which carries two 10-foot travel lanes with no shoulders, will be replaced. The new structure will carry six 11.8 foot travel lanes, two 11.8 foot outside shoulders, and two three foot inside shoulders.
047	Construction: Year: 2004	Route 1 - Widening	Widening from Pierson Avenue to south of Garden State Parkway.
048	Construction: Year: 2004	Route 1&9, Production Way to East Lincoln Avenue, Widening	New ramp connections between Routes 1&9 and Randolph Avenue, widening Route 1 to include auxiliary lanes/shoulders, intersection improvements.
048A	Construction: Year: 2005	Route 1&9, Rahway River Bridge	New structure Parallel over the Rahway River (parallel structure) on Routes 1&9 with three 12-foot travel lanes with two 12-foot shoulders.
051	Final Design: Year: 2006	Route 1 & 9, Bridge replacement	St. Paul's Avenue Bridge replacement. New bridge will provide direct connections to Rt 1 & 9, Route 7 WittPenn Bridge, Pulaski Skyway, Route 139 and the local network of Jersey City ('Portway' project)
078C	Construction: Year: 2003	Route 9 Bridge Rehabilitation	Edison Bridge Rehabilitation and improvement to 3 northbound lanes (southbound under separate contract)
115A	Construction: Year: 2004	Route 18 Extension	River road to Hoes Lane Extension along Metlars Lane. New connector road on new alignment (4 lane, limited access roadway with grade-separated interchanges.
115B	Final Design: Year: 2005	Route 18 Extension	Hoes Lane Extension to I-287, New connector road on new alignment
722	Construction: Year: 2003	TSM 6, Contract 1 - Route 21	Raymond Boulevard to I-280 overpass, widening and bridge replacement
722A	Construction: Year: 2003	Route 21 – Lafayette Street to Raymond Boulevard	Lafayette Street to Raymond Boulevard, widening, intersection improvements, turning lanes, signal changes
722B	Construction: Year: 2004	Route 21 – I-280 overpass to Passaic Street	Overpass to Passaic Street, widening, intersection improvements, turn lanes, signal changes
9043	Construction: Year: 2003	Doremus Avenue Roadway	Wilson Avenue to Raymond Boulevard, reconstruction (Phase I of the 'Portway' project)
9105	Construction: Year: 2004	Route 17 - Essex Street over Route/17	The existing structure of four travel lanes will be replaced with a new, wider structure of six travel lanes, which is compatible with planned future improvements on Route 17.
9141	Final Design: Year: 2005	I-78 at Diamond Hill Road	I-78 Interchange improvements at CR 655 (Diamond Hill Road) - Widening of the existing I-78 bridge to provide an acceleration lane (Ramps from westbound I-78 to southbound Diamond Hill Road and a ramp from Diamond Hill Road northbound to I-78 westbound.)
9267B	Construction: Year: 2003	Route 1&9 Bridge replacement	Replacement of Amtrak bridge, new accelerations lanes and modification of Route 1 & 9 and Route 3 merge

TABLE B.1-21: NJTPA – CPIP BASELINE IMPROVEMENT PROJECTS (2002 TIP)
(CONTINUED)

Code/DB #	Phase – Latest Fund Yr.	Project	Project Description
98547B	Final Design: Year: 2004	Perth Amboy Industrial Road - New Victory Bridge Connector Road to bay front	The City of Perth Amboy to construct a new road from the east side of the Victory Bridge to the vicinity of the bay front
98552	Final Design: Year: 2003	Secaucus Connector	New I-95 interchange in the vicinity of the Secaucus Transfer Station and Allied Junction
99379	Final Design: Year: 2005	Route 440 Connector	Connector ramps and roadway between Route 440 and High Street, Linking Perth Amboy redevelopment with Route 440
L020	Construction: Year: 2003	Doremus Avenue Bridge	Doremus Avenue Bridge over the Oak Island Yards, Replacement (Phase I of the 'Portway' project)
94047B	Construction: Year: 2005	Airport Ramp, south of Haynes Avenue intersection; Crossover, north of I-78 connection	This project will provide access to the airport via Route 1&9 from the southbound express lanes using a right lane exit. Construction will include the direct connection to the airport from Route 1&9 express, as well as reversing the existing express to local crossover, to a local to express crossover, which will allow all traffic from the Pulaski Skyway, Route 1&9 Truck, Delancy Street, and Port Street to bypass the Routes I-78, 21, 22, and Haynes Avenue interchanges and still get to the airport. This connection will significantly reduce traffic from the local lanes, level of service on the local southbound lanes will improve, safety will increase and the accident rate will be reduced.
799	Final Design: Year: 2003	Route 3 Improvements	Safety and operational improvements from west of the Route 17 interchange in Lyndhurst to east of the Main Avenue Interchange in Clifton. Replacement of eight structures, addition of 12-foot auxiliary lane eastbound and westbound. Standard acceleration and deceleration lanes will be provided.

TABLE B.1-22: NYMTC – CPIP BASELINE IMPROVEMENT PROJECTS (2002 TIP)

Code	Category – Latest Fund Yr.	Project	Project Description
810141	Mobility: Year: 2004	Automatic Traffic Management & Information Systems	Installation/Upgrading of ATMS/ATIS Along Hutchinson River Parkway
810322	Construction: Year: 2006	Route 9A; Route 119-RT 100C Traffic Operations/Capacity improvement, Westchester	Traffic Operations/Capacity improvement. Alternatives to be determined during scoping. Solution may involve a bypass roadway widening along existing 9A alignment or a one-way couple or other combinations, which may be investigated during scoping. Village of Elmsford and Town of Greensburgh
812696	Reconstruction: Year: 2002	TSP: Route 6 and Route 202, Westchester	Reconstruction and widening the parkway from four to six lanes. Town of Yorktown
813075	Reconstruction: Year: 2002	Route 120/ Route 22/I-684	Reconstruction of Route 120 and exits 2 and 3 on I-684, Install signals, Widen/Replace/Rehabilitate bridges as required. Town of North Castle, Westchester
872951	Reconstruction: Year: 2002	I-287	Cross Westchester Expressway rehabilitation stage 2. Saw Mill River Parkway - Exit 5. Village of Elmsford, Town of Greensburgh, Westchester
875758	Construction: Year: 2004	BRP Ramp at Yonkers Avenue	Construct new exit ramp from northbound Bronx River Parkway to the Yonkers Avenue Bridge. Remove the existing exit ramp from the northbound Bronx River Parkway to the Oak Street Bridge. City of Yonkers and Mount Vernon, Westchester
875792	EGC: Year: 2003	RR Crossing elimination	Eliminate railroad crossing at Brook Street, Croton, Westchester
X024.40	Bridge Reconstruction: Year: 2002	Battery Place Reconstruction	Reconstruction of Battery Place underpass to State Street.
X730.90	Reconstruction & Preservation: Year: 2004	I-278	Gowanus Expressway interim deck project
X731.10	Reconstruction & Preservation: Year: 2005	I-278	Gowanus Expressway interim deck project
X735.39	Bridge Replacement: Year: 2004	Northern Boulevard	Northern Blvd connector replacement of the S-bound Whitestone Exp Bridge over Flushing River, Queens and Northbound Whitestone Expressway Bridge. Exit ramp over the Kew Gardens Interchange with Van Wyck Exp
X735.48	Mobility: Year: 2002	I-678 Van Wyck Expressway	Develop construction plan for intelligent transportation system (ITS). Install new enhanced communication network, extend area covered by ITS on the Van Wyck Expressway from Queens Blvd to Whitestone Bridge.
X735.71	Mobility: Year: 2002	Van Wyck ITS Phase II	GCP ITS: Kew Gardens/I-678 Triboro/GCP Van Wyck Expressway & Western Queens
X735.72	Mobility: Year: 2003	Van Wyck ITS Phase III	BQE/LIE ITS Van Wyck Expressway & Western Queens
X756.56	Miscellaneous Rail : Year: 2003	Brooklyn Waterfront rail improvements	On-dock and landside rail improvements at Red Hook, 65 th Street Yard and South Brooklyn Main Terminal
X8004.08	Mobility: Year: 2002	Bruckner Expressway ITS Phase I	Triboro bridge New England Thruway, Phase I - Installation of ITS on state routes in the Bronx & Northern Manhattan
X804.11	Mobility: Year: 2002	JFK ITS	Eastern Queens/JFK Airport/Laurelton Parkway - installation of ITS on state routes in eastern Queens

**TABLE B.1-22: NYMTC – CPIP BASELINE IMPROVEMENT PROJECTS (2002 TIP)
(CONTINUED)**

Code	Category – Latest Fund Yr.	Project	Project Description
X804.18	Mobility Year: 2004	Staten Island ITS	Verrazano Bridge/Outerbridge Crossing/Goethals Bridge/Bayonne Bridge. Construction of ITS for state routes on Staten Island
X804.19	Mobility Year: 2003	Brooklyn ITS Phase I	ITS for state routes in Brooklyn
X804.52	Mobility Year: 2002	I-278 Gowanus Expressway/Verrazano Bridge/Battery Tunnel	Installation of interim ITS during Gowanus Expressway Reconstruction. Incident detection and motorist information
X805.69	Mobility Year: 2002	I-278 ITS Phase II	Bronx and N. Manhattan ITS, spanning from MDE: Triboro Bridge to Westchester County line and Sheridan Expressway: I-278 to I-95
X805.70	Mobility Year: 2004	Bronx ITS	Cross Bronx expressway and Hutchinson River Parkway ITS
X805.83	Mobility Year: 2004	Bronx ITS	Bronx River Parkway ITS spanning through Bronx River Parkway, Mosholu Parkway, Henry Hudson Parkway and Harlem River Dr.
X806.02	Mobility Year: 2003	Incident Management	Develop incident management system spanning from I-278 BQE (Atlantic Ave to GCP and TBB to I-678, using highway emergency local patrols

TABLE B.1-23: PANYNJ – CPIP BASELINE IMPROVEMENT PROJECTS (2002 TIP)

Code	Category Latest Fund Yr.	Project	Project Description
CA44-007	Mobility Year – 2002	Newark Airport Access	NIA Southern Access Roads improvements
CP05-053	Mobility Year – 2002	NJ Turnpike	New Jersey Turnpike Exit 14 and Port Street
CP05-098	Mobility Year – 2004	NJ Turnpike Exit 14 - Ingress & Egress to New Jersey Marine Terminals	Modifications to Port Street to both inner & outer roadway in order to provide better traffic flow and direct connection from Turnpike to the airport. Also includes traffic study.
CP05-103	Mobility Year – 2006	Port Newark Container Terminal Intermodal Terminal Storage Facility	Storage facility for rail cars associated with the Port Newark Intermodal Movements.
CP08-041	Capacity Year – 2003	McLester St Grade Separation & Second Lead Track	Grade separation at McLester Street to eliminate conflicts between rail and truck traffic.
CP08-081	Mobility Year – 2002	North Avenue East	Eastbound bridge widening from two to three lanes
CP08-086	Mobility Year – 2003	McLester Street Curve Realignment	Curve modification McLester Street & North Avenue. 2 Contracts
CP08-096	Mobility Year – 2006	Portway Connection to NJ Terminal	Portway is a part of New Jersey's Intermodal Connection to World Trade. Portway improvements will create a new intermodal corridor for international goods movement and will provide a truck route to relieve congestion on area roads. Portway improvements will occur in various municipalities such as Newark, Jersey City, Elizabeth, Kearny, Linden, and Rahway.
CP08-114	Capacity Year – 2004	Corbin St Roadway Realignment	Realignment of Corbin Street
CP09-064	Mobility Year – 2005	Cross Harbor Improvements	Improvements to Cross Harbor Transportation
CP11-013	Capacity Year – 2006	Howland Hook Development, Port Ivory	Access Improvements to the Arlington Intermodal yard and Howland Hook terminal.
PA011	Final Design Year – 2002	Holland Tunnel ITS	Holland Tunnel ITS
PA017	Final Design Year – 2002	Lincoln Tunnel ITS	Lincoln Tunnel ITS

TABLE B.1-24: RAIL CONNECTIVITY PROJECTIONS

Location	Railroad System Connection	Year in which Congestion First Occurs
Port Newark North	Conrail, Chemical Coast	2015-2020
Port Newark South	Conrail, Chemical Coast	2015-2020
Port Elizabeth	Conrail, Chemical Coast	2015-2020
Port Jersey	Conrail, National Docks Secondary	None ¹
Bayonne	Conrail, National Docks Secondary	None ¹
Howland Hook	Conrail, Chemical Coast	2015-2020 ²
South Brooklyn	New York & Atlantic, Bay Ridge Line/Cross-Harbor Railroad Tunnel	None ³

^{1.} Some congestion 2005-2015 approaching Croxton, 2015-2020 around Oak Island.

^{2.} Congestion from 2005 southbound on Chemical Coast between Rahway Bridge and Port Reading.

^{3.} Double stack clearance available only via Cross-Harbor tunnel. Some congestion 2005-2015 approaching on NJ side, Croxton, 2015-2020 around Oak Island.

Ref: Chapter 10, Volume 1, Draft CPIP

**B.2 WAREHOUSE PROJECTIONS OF DEMAND AND
AVAILABILITY OF SUITABLE LAND**

TABLE B.2-1: CONTAINER IMPORTS 1999 AND 2020 (TEUS)

	1999	2020
Total Imports ¹	1,646,875	2,567,185
Imports to Port Area (NJ)	199,583	323,261
Imports to Port Area (NY)	155,309	246,504
TOTAL PORT AREA	354,892	569,765

¹ Task E Technical Memorandum (Draft #2) – Volume 1: Market Forecast & Outlook February 2003. Table E1-28 page E1-41

TABLE B.2-2: 1999 CONTAINER IMPORTS AND FORECAST CONTAINER IMPORTS 2020 (TEUS)

	Warehouse	Other	Total	% Warehouse
1999 Total	862,637	784,236	1,646,873	52%
1999 Port Area	185,893	168,998	354,892	52%
2020 Total	1,326,136	1,241,048	2,567,184	52%
2020 Port Area	294,324	275,440	569,764	52%

TABLE B.2-3: 1999 WAREHOUSE FLOOR SPACE REQUIREMENTS

Total Imports		
TEU per annum	862,637	
Total Pallets per annum	10,351,644	TEU x Pallets per TEU
Total Pallets at any one time	862,637	annual pallets/stock turns pa
Floor space required at any one time (Sq Ft)	12,323,386	@ 0.07 pallets per Sq Ft
Port Area		
TEU per annum	185,893	
Total Pallets per annum	2,230,719	TEU x Pallets per TEU
Total Pallets at any one time	185,893	annual pallets/stock turns pa
Floor space required at any one time (Sq Ft)	2,655,614	@ 0.07 pallets per Sq Ft

TABLE B.2-4: 2020 WAREHOUSE FLOOR SPACE REQUIREMENTS

Total Imports		
TEU per annum	1,326,136	
Total Pallets per annum	15,913,632	TEU x Pallets per TEU
Total Pallets at any one time	1,326,136	annual pallets/stock turns pa
Floor space required at any one time (Sq Ft)	18,944,800	@ 0.07 pallets per Sq Ft
Port Area		
TEU per annum	294,324	
Total Pallets per annum	3,531,888	TEU x Pallets per TEU
Total Pallets at any one time	294,324	annual pallets/stock turns pa
Floor space required at any one time (Sq Ft)	4,204,629	@ 0.07 pallets per Sq Ft

TABLE B.2-5: LAND REQUIREMENTS FOR WAREHOUSING 1999 AND 2020

1999 Land Area	152 acres
2020 Land Area	241 acres
Additional Land Required 2020 vs. 1999	89 acres

TABLE B.2-6: FREIGHT OPPORTUNITY SITES – DISTRIBUTION OF PLOT SIZES

Plot Size Acres	Number of Plots
0 – 10	12
10 – 20	16
20 – 50	28
50 – 100	16
100 – 200	9
200 – 300	2
300 – 400	1
> 400	1

TABLE B.2-7: MEAN DWELL TIME BY COMMODITY

Commodity	Sample Size	Median Turnover per annum	Dwell Time Weeks
Dairy Product Manufacturers	251	14.0	3.7
Confectionery Manufacturers	221	11.2	4.6
Beverage Manufacturers	413	11.3	4.6
Tobacco Manufacturers	22	5.7	9.1
Mens Suits Manufacturers	325	7.2	7.2
Womens Dress Manufacturers	156	10	5.2
Household Appliance Mfrs	228	7.2	7.2
Radio and TV Manufacturers	241	6.8	7.6
Meat Wholesalers	735	47.7	1.1
General Merchandising Retailers	309	7.6	6.8
Food Retailers	1,577	34.9	1.5
Clothing Retailers	260	4.6	11.3
Non Store Retailers	494	9.9	5.3
Weighted Mean			4.1

Source: *Dunn and Bradstreet Key Business Ratios*

TABLE B.2-8: 2020 FORECAST CONTAINER VOLUMES (TEUs) BY COMMODITY AND DESTINATION

SITC2 Description	Data	Other	Warehouse	Grand Total
Animal Feed	Sum of Port Area	9,847		9,847
	Sum of Total	44,368		44,368
Animal Oils and Fats	Sum of Port Area	45		45
	Sum of Total	202		202
Beverages	Sum of Port Area		28,884	28,884
	Sum of Total		130,141	130,141
Cereals	Sum of Port Area		11,503	11,503
	Sum of Total		51,830	51,830
Chemical Fertilizers	Sum of Port Area	82		82
	Sum of Total	369		369
Chemical Materials, Not Elsewhere Specified	Sum of Port Area	2,615		2,615
	Sum of Total	11,783		11,783
Clothes	Sum of Port Area		7,692	7,692
	Sum of Total		34,657	34,657
Coal, Coke, and Briquettes	Sum of Port Area	19		19
	Sum of Total	86		86
Coffee, Tea, Cocoa, Spices	Sum of Port Area		28,952	28,952
	Sum of Total		130,449	130,449
Coin	Sum of Port Area	1		1
	Sum of Total	6		6
Cork and Wood	Sum of Port Area	5,448		5,448
	Sum of Total	24,547		24,547
Cork and Wood Manufactures	Sum of Port Area		5,464	5,464
	Sum of Total		24,618	24,618
Crude Animal and Vegetable Materials, Not Elsewhere Specified	Sum of Port Area	129,639		129,639
	Sum of Total	584,116		584,116
Crude Fertilizers and Crude Minerals	Sum of Port Area	8,991		8,991
	Sum of Total	40,510		40,510
Crude Rubber	Sum of Port Area	669		669
	Sum of Total	3,013		3,013
Dairy Products and Eggs	Sum of Port Area		12,313	12,313
	Sum of Total		55,480	55,480
Dyeing, Tanning and Coloring Materials	Sum of Port Area	1,205		1,205
	Sum of Total	5,430		5,430
Essential Oils, Resinoids and Perfumes	Sum of Port Area		3,602	3,602
	Sum of Total		16,228	16,228
Fish, Crustaceans, Mollusks	Sum of Port Area		8,446	8,446
	Sum of Total		38,053	38,053
Footwear	Sum of Port Area		2,916	2,916
	Sum of Total		13,140	13,140
Fruit and Vegetables	Sum of Port Area		117,831	117,831
	Sum of Total		530,911	530,911
Furniture, Bedding, Cushions	Sum of Port Area		11,612	11,612
	Sum of Total		52,320	52,320
Gas, Natural and Manufactured	Sum of Port Area		0	0
	Sum of Total		1	1

TABLE B.2-8: 2020 FORECAST CONTAINER VOLUMES (TEUs) BY COMMODITY AND DESTINATION (CONTINUED)

SITC2 Description	Data	Other	Warehouse	Grand Total
General Industrial Machinery	Sum of Port Area	6,506		6,506
	Sum of Total	29,313		29,313
Hides, Skins and Fur	Sum of Port Area	38		38
	Sum of Total	173		173
Inorganic Chemicals	Sum of Port Area	5,015		5,015
	Sum of Total	22,597		22,597
Iron and Steel	Sum of Port Area	7,397		7,397
	Sum of Total	33,328		33,328
Leather and Leather Manufactures	Sum of Port Area		566	566
	Sum of Total		2,552	2,552
Low Value Transactions	Sum of Port Area		3,061	3,061
	Sum of Total		13,792	13,792
Machinery Specialized for Industries	Sum of Port Area	7,845		7,845
	Sum of Total	35,346		35,346
Meat and Meat Preparations	Sum of Port Area		2,214	2,214
	Sum of Total		9,974	9,974
Medical and Pharmaceutical Products	Sum of Port Area		479	479
	Sum of Total		2,160	2,160
Metal Manufactures, Not Elsewhere Specified	Sum of Port Area	6,043		6,043
	Sum of Total	27,229		27,229
Metal Working Machinery	Sum of Port Area	608		608
	Sum of Total	2,738		2,738
Metalliferous Ore and Metal Scrap	Sum of Port Area	1,531		1,531
	Sum of Total	6,900		6,900
Miscellaneous Edible Products	Sum of Port Area		5,705	5,705
	Sum of Total		25,706	25,706
Miscellaneous Manufactures	Sum of Port Area		8,683	8,683
	Sum of Total		39,123	39,123
Non Ferrous Metals	Sum of Port Area	16,631		16,631
	Sum of Total	74,934		74,934
Non Metallic Mineral Manufactures	Sum of Port Area	39,975		39,975
	Sum of Total	180,116		180,116
Non Primary Plastics	Sum of Port Area	2,054		2,054
	Sum of Total	9,255		9,255
Office Machinery and Computers	Sum of Port Area		346	346
	Sum of Total		1,558	1,558
Oil Seeds and Oleaginous Fruit	Sum of Port Area	1,269		1,269
	Sum of Total	5,717		5,717
Organic Chemicals	Sum of Port Area	7,315		7,315
	Sum of Total	32,959		32,959
Other Electrical Machinery	Sum of Port Area		2,248	2,248
	Sum of Total		10,128	10,128
Other Transport Equipment	Sum of Port Area	4,537		4,537
	Sum of Total	20,444		20,444
Paper, Paperboard	Sum of Port Area		8,834	8,834
	Sum of Total		39,805	39,805

TABLE B.2-8: 2020 FORECAST CONTAINER VOLUMES (TEUs) BY COMMODITY AND DESTINATION (CONTINUED)

SITC2 Description	Data	Other	Warehouse	Grand Total
Petroleum, and Petroleum Products	Sum of Port Area	222		222
	Sum of Total	1,002		1,002
Photographic Equipment, Clocks	Sum of Port Area		1,377	1,377
	Sum of Total		6,205	6,205
Power Generating Machinery	Sum of Port Area	1,603		1,603
	Sum of Total	7,222		7,222
Precious Metals	Sum of Port Area	0		0
	Sum of Total	0		0
Prefabricated Buildings, Plumbing Etc	Sum of Port Area	614		614
	Sum of Total	2,767		2,767
Primary Plastics	Sum of Port Area	3,407		3,407
	Sum of Total	15,352		15,352
Processed Animal or Vegetable Oils	Sum of Port Area		385	385
	Sum of Total		1,733	1,733
Professional and Scientific Apparatus	Sum of Port Area		266	266
	Sum of Total		1,198	1,198
Pulp and Waste Paper	Sum of Port Area	227		227
	Sum of Total	1,024		1,024
Road Vehicles	Sum of Port Area	2,957		2,957
	Sum of Total	13,324		13,324
Rubber Manufactures	Sum of Port Area		3,298	3,298
	Sum of Total		14,861	14,861
Sugar and Honey	Sum of Port Area		4,593	4,593
	Sum of Total		20,693	20,693
Telecoms and Audio Machinery	Sum of Port Area		608	608
	Sum of Total		2,740	2,740
Textile Fibers	Sum of Port Area	1,083		1,083
	Sum of Total	4,877		4,877
Textile Yarn, Fabrics	Sum of Port Area		5,195	5,195
	Sum of Total		23,406	23,406
Tobacco	Sum of Port Area		153	153
	Sum of Total		689	689
Travel Goods	Sum of Port Area		231	231
	Sum of Total		1,043	1,043
Vegetable Fats and Oils	Sum of Port Area		6,868	6,868
	Sum of Total		30,945	30,945
Who knows?	Sum of Port Area	1		1
	Sum of Total	3		3
TOTAL Sum of Port Area		275,440	294,324	569,764
TOTAL Sum of Total		1,241,048	1,326,136	2,567,184