

TIGER II - Portsmouth Memorial Bridge Benefit-Cost Time Series

Year	Costs			Benefits							Present Value - 7%		
	Construction Costs	Operations & Maint. Cost	Total Costs	Emissions Benefits	Time Savings	Accidents	Highway Maint. Savings	Vehicle Operating Costs	Health Benefit	Total Benefits	Costs PV	Total Benefits PV	NPV
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Totals	90,400,000	106,501,225	196,901,225	13,304,547	264,979,094	47,276,980	2,409,318	192,566,629	19,800,452	540,337,020	89,237,876	67,466,423	(21,771,453)
2010	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2012	\$ 24,106,667	\$ -	\$ 24,106,667	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,055,696	\$ -	\$ (21,055,696)
2013	\$ 36,160,000	\$ -	\$ 36,160,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,517,331	\$ -	\$ (29,517,331)
2014	\$ 30,133,333	\$ -	\$ 30,133,333	\$ 1,378	\$ 40,064	\$ 5,885	\$ 355	\$ 19,343	\$ 315,943	\$ 382,967	\$ 22,988,576	\$ 292,164	\$ (22,696,412)
2015	\$ -	\$ 849,596	\$ 849,596	\$ 16,159	\$ 480,765	\$ 70,614	\$ 4,258	\$ 233,559	\$ 318,470	\$ 1,123,826	\$ 605,750	\$ 801,272	\$ 195,522
2016	\$ -	\$ 849,596	\$ 849,596	\$ 23,795	\$ 721,147	\$ 105,921	\$ 6,387	\$ 353,146	\$ 321,018	\$ 1,531,415	\$ 566,122	\$ 1,020,447	\$ 454,325
2017	\$ -	\$ 947,096	\$ 947,096	\$ 31,343	\$ 961,530	\$ 141,228	\$ 8,517	\$ 474,008	\$ 323,586	\$ 1,940,212	\$ 589,804	\$ 1,208,266	\$ 618,463
2018	\$ -	\$ 849,596	\$ 849,596	\$ 38,934	\$ 1,201,912	\$ 176,535	\$ 10,646	\$ 596,107	\$ 326,175	\$ 2,350,309	\$ 494,473	\$ 1,367,901	\$ 873,429
2019	\$ -	\$ 947,096	\$ 947,096	\$ 46,599	\$ 1,442,294	\$ 211,843	\$ 12,775	\$ 718,420	\$ 328,784	\$ 2,760,716	\$ 515,157	\$ 1,501,647	\$ 986,489
2020	\$ -	\$ 949,596	\$ 949,596	\$ 54,366	\$ 1,682,677	\$ 247,150	\$ 14,904	\$ 842,429	\$ 331,415	\$ 3,172,939	\$ 482,726	\$ 1,501,647	\$ 1,130,235
2021	\$ -	\$ 947,096	\$ 947,096	\$ 62,251	\$ 1,923,059	\$ 282,457	\$ 17,033	\$ 965,487	\$ 334,066	\$ 3,584,353	\$ 449,959	\$ 1,702,900	\$ 1,252,942
2022	\$ -	\$ 849,596	\$ 849,596	\$ 70,241	\$ 2,163,442	\$ 317,764	\$ 19,162	\$ 1,090,811	\$ 336,739	\$ 3,998,159	\$ 377,231	\$ 1,775,230	\$ 1,397,999
2023	\$ -	\$ 947,096	\$ 947,096	\$ 78,426	\$ 2,403,824	\$ 353,071	\$ 21,291	\$ 1,215,401	\$ 339,432	\$ 4,411,446	\$ 393,011	\$ 1,830,593	\$ 1,437,582
2024	\$ -	\$ 849,596	\$ 849,596	\$ 86,837	\$ 2,644,206	\$ 388,378	\$ 23,421	\$ 1,338,284	\$ 342,148	\$ 4,823,274	\$ 329,488	\$ 1,870,549	\$ 1,541,061
2025	\$ -	\$ 1,047,096	\$ 1,047,096	\$ 95,270	\$ 2,884,589	\$ 423,685	\$ 25,550	\$ 1,465,804	\$ 344,885	\$ 5,239,783	\$ 379,516	\$ 1,899,139	\$ 1,519,623
2026	\$ -	\$ 849,596	\$ 849,596	\$ 103,995	\$ 3,124,971	\$ 458,992	\$ 27,679	\$ 1,593,946	\$ 347,644	\$ 6,657,228	\$ 287,788	\$ 1,916,299	\$ 1,628,511
2027	\$ -	\$ 947,096	\$ 947,096	\$ 112,895	\$ 3,365,354	\$ 494,299	\$ 29,808	\$ 1,721,684	\$ 350,425	\$ 6,074,465	\$ 299,826	\$ 1,923,020	\$ 1,623,194
2028	\$ -	\$ 849,596	\$ 849,596	\$ 122,104	\$ 3,605,736	\$ 529,606	\$ 31,937	\$ 1,854,827	\$ 353,229	\$ 6,497,439	\$ 251,365	\$ 1,922,358	\$ 1,670,993
2029	\$ -	\$ 947,096	\$ 947,096	\$ 131,381	\$ 3,846,118	\$ 564,914	\$ 34,066	\$ 1,987,165	\$ 356,055	\$ 6,919,699	\$ 261,880	\$ 1,913,354	\$ 1,651,474
2030	\$ -	\$ 949,596	\$ 949,596	\$ 140,697	\$ 4,086,501	\$ 600,221	\$ 36,196	\$ 2,115,513	\$ 358,903	\$ 7,338,029	\$ 245,394	\$ 1,896,286	\$ 1,650,893
2031	\$ -	\$ 947,096	\$ 947,096	\$ 150,487	\$ 4,326,883	\$ 635,528	\$ 38,325	\$ 2,249,723	\$ 361,774	\$ 7,762,719	\$ 228,736	\$ 1,874,798	\$ 1,646,062
2032	\$ -	\$ 849,596	\$ 849,596	\$ 160,538	\$ 4,567,266	\$ 670,835	\$ 40,454	\$ 2,386,301	\$ 364,668	\$ 8,190,062	\$ 191,765	\$ 1,848,605	\$ 1,656,840
2033	\$ -	\$ 947,096	\$ 947,096	\$ 170,823	\$ 4,807,648	\$ 706,142	\$ 42,583	\$ 2,519,764	\$ 367,586	\$ 8,614,545	\$ 199,787	\$ 1,817,211	\$ 1,617,424
2034	\$ -	\$ 849,596	\$ 849,596	\$ 181,287	\$ 5,048,030	\$ 741,449	\$ 44,712	\$ 2,659,139	\$ 370,526	\$ 9,045,143	\$ 167,495	\$ 1,783,219	\$ 1,615,724
2035	\$ -	\$ 1,124,232	\$ 1,124,232	\$ 226,963	\$ 6,249,942	\$ 917,985	\$ 55,358	\$ 3,311,306	\$ 373,491	\$ 11,135,044	\$ 207,139	\$ 2,051,623	\$ 1,844,484
2036	\$ -	\$ 849,596	\$ 849,596	\$ 289,027	\$ 6,299,942	\$ 1,184,174	\$ 57,731	\$ 4,208,454	\$ 376,479	\$ 12,415,806	\$ 146,297	\$ 2,137,946	\$ 1,991,649
2037	\$ -	\$ 947,096	\$ 947,096	\$ 294,621	\$ 6,350,341	\$ 1,193,648	\$ 58,192	\$ 4,284,056	\$ 379,490	\$ 12,560,349	\$ 152,417	\$ 2,021,342	\$ 1,868,925
2038	\$ -	\$ 849,596	\$ 849,596	\$ 300,357	\$ 6,401,144	\$ 1,203,197	\$ 58,658	\$ 4,361,704	\$ 382,526	\$ 12,707,587	\$ 127,781	\$ 1,911,249	\$ 1,783,468
2039	\$ -	\$ 947,096	\$ 947,096	\$ 306,239	\$ 6,452,353	\$ 1,212,822	\$ 59,127	\$ 4,441,463	\$ 385,587	\$ 12,857,592	\$ 133,126	\$ 1,807,299	\$ 1,674,173
2040	\$ -	\$ 27,876,746	\$ 27,876,746	\$ 312,272	\$ 6,503,972	\$ 1,222,525	\$ 59,600	\$ 4,523,402	\$ 388,671	\$ 13,010,442	\$ 3,662,088	\$ 1,709,144	\$ (1,952,943)
2041	\$ -	\$ 947,096	\$ 947,096	\$ 318,459	\$ 6,556,004	\$ 1,232,305	\$ 60,077	\$ 4,607,590	\$ 391,781	\$ 13,166,215	\$ 116,278	\$ 1,616,456	\$ 1,500,178
2042	\$ -	\$ 849,596	\$ 849,596	\$ 324,805	\$ 6,608,452	\$ 1,242,164	\$ 60,558	\$ 4,694,100	\$ 394,915	\$ 13,324,993	\$ 97,484	\$ 1,528,925	\$ 1,431,441
2043	\$ -	\$ 947,096	\$ 947,096	\$ 331,314	\$ 6,661,319	\$ 1,252,101	\$ 61,042	\$ 4,783,009	\$ 398,074	\$ 13,486,859	\$ 101,562	\$ 1,446,259	\$ 1,344,698
2044	\$ -	\$ 849,596	\$ 849,596	\$ 337,991	\$ 6,714,610	\$ 1,262,118	\$ 61,530	\$ 4,874,392	\$ 401,259	\$ 13,651,900	\$ 85,146	\$ 1,368,185	\$ 1,283,039
2045	\$ -	\$ 20,947,096	\$ 20,947,096	\$ 344,842	\$ 6,768,327	\$ 1,272,215	\$ 62,023	\$ 4,968,331	\$ 404,469	\$ 13,820,206	\$ 1,961,967	\$ 1,294,441	\$ (667,525)
2046	\$ -	\$ 849,596	\$ 849,596	\$ 351,870	\$ 6,822,474	\$ 1,282,392	\$ 62,519	\$ 5,064,909	\$ 407,705	\$ 13,991,869	\$ 74,370	\$ 1,224,785	\$ 1,150,415
2047	\$ -	\$ 947,096	\$ 947,096	\$ 359,081	\$ 6,877,053	\$ 1,292,652	\$ 63,019	\$ 5,164,212	\$ 410,966	\$ 14,166,984	\$ 77,481	\$ 1,158,984	\$ 1,081,504
2048	\$ -	\$ 849,596	\$ 849,596	\$ 366,480	\$ 6,932,070	\$ 1,302,993	\$ 63,523	\$ 5,266,329	\$ 414,254	\$ 14,345,649	\$ 64,957	\$ 1,096,823	\$ 1,031,866
2049	\$ -	\$ 947,096	\$ 947,096	\$ 374,073	\$ 6,987,526	\$ 1,313,417	\$ 64,031	\$ 5,371,351	\$ 417,568	\$ 14,527,967	\$ 67,675	\$ 1,038,096	\$ 970,421
2050	\$ -	\$ 5,549,596	\$ 5,549,596	\$ 381,865	\$ 7,043,427	\$ 1,323,924	\$ 64,544	\$ 5,479,374	\$ 420,908	\$ 14,714,042	\$ 370,604	\$ 982,609	\$ 612,005
2051	\$ -	\$ 947,096	\$ 947,096	\$ 389,862	\$ 7,099,774	\$ 1,334,515	\$ 65,060	\$ 5,590,496	\$ 424,276	\$ 14,903,983	\$ 59,110	\$ 930,181	\$ 871,071
2052	\$ -	\$ 849,596	\$ 849,596	\$ 398,069	\$ 7,156,572	\$ 1,345,192	\$ 65,580	\$ 5,704,818	\$ 427,670	\$ 15,097,901	\$ 49,556	\$ 880,639	\$ 831,083
2053	\$ -	\$ 947,096	\$ 947,096	\$ 406,493	\$ 7,213,825	\$ 1,355,953	\$ 66,105	\$ 5,822,445	\$ 431,091	\$ 15,295,912	\$ 51,629	\$ 833,821	\$ 782,192
2054	\$ -	\$ 849,596	\$ 849,596	\$ 415,139	\$ 7,271,535	\$ 1,366,801	\$ 66,634	\$ 5,943,486	\$ 434,540	\$ 15,498,136	\$ 43,284	\$ 789,575	\$ 746,291
2055	\$ -	\$ 5,724,232	\$ 5,724,232	\$ 424,015	\$ 7,329,708	\$ 1,377,735	\$ 67,167	\$ 6,068,054	\$ 438,016	\$ 15,704,695	\$ 272,551	\$ 747,755	\$ 475,205
2056	\$ -	\$ 849,596	\$ 849,596	\$ 433,127	\$ 7,388,345	\$ 1,388,757	\$ 67,704	\$ 6,196,263	\$ 441,521	\$ 15,915,718	\$ 37,806	\$ 708,227	\$ 670,421
2057	\$ -	\$ 947,096	\$ 947,096	\$ 442,481	\$ 7,447,452	\$ 1,399,867	\$ 68,246	\$ 6,328,235	\$ 445,053	\$ 16,131,334	\$ 39,387	\$ 670,861	\$ 631,474
2058	\$ -	\$ 849,596	\$ 849,596	\$ 452,085	\$ 7,507,032	\$ 1,411,066	\$ 68,792	\$ 6,464,094	\$ 448,613	\$ 16,351,682	\$ 33,021	\$ 635,537	\$ 602,516
2059	\$ -	\$ 947,096	\$ 947,096	\$ 461,946	\$ 7,567,088	\$ 1,422,355	\$ 69,342	\$ 6,603,967	\$ 452,202	\$ 16,576,899	\$ 34,402	\$ 602,141	\$ 567,739
2060	\$ -	\$ 5,549,596	\$ 5,549,596	\$ 472,071	\$ 7,627,625	\$ 1,433,733	\$ 69,897	\$ 6,747,987	\$ 455,820	\$ 16,807,132	\$ 188,396	\$ 570,564	\$ 382,168
2061	\$ -	\$ 947,096	\$ 947,096	\$ 482,468	\$ 7,688,646	\$ 1,445,203	\$ 70,456	\$ 6,896,292	\$ 459,466	\$ 17,042,531	\$ 30,048	\$ 540,706	\$ 510,658
2062	\$ -	\$ 849,596	\$ 849,596	\$ 493,144	\$ 7,750,155	\$ 1,456,765	\$ 71,020	\$ 7,049,023	\$ 463,142	\$ 17,283,248	\$ 25,192	\$ 512,471	\$ 487,279
2063	\$ -	\$ 947,096	\$ 947,096	\$ 504,108	\$ 7,812,156	\$ 1,468,419	\$ 71,588	\$ 7,206,328	\$ 466,847	\$ 17,529,446	\$ 26,245	\$ 485,767	\$ 459,522
2064	\$ -	\$ 849,596	\$ 849,596	\$ 429,473	\$ 6,562,211	\$ 1,233,472	\$ 60,134	\$ 6,140,298	\$ 470,582	\$ 14,896,170	\$ 22,003	\$ 385,790	\$ 363,786