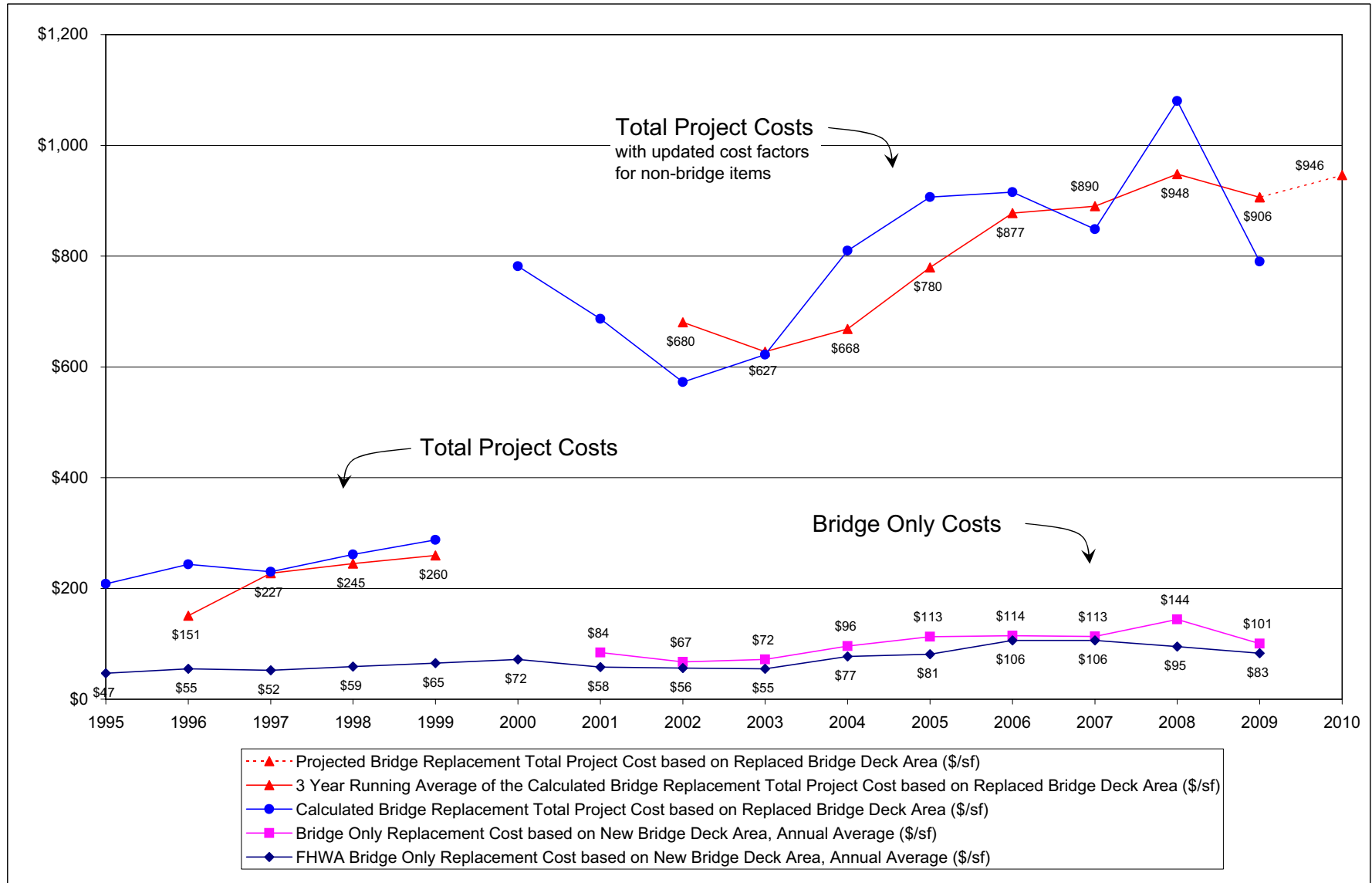


Bridge & Total Project Replacement Cost Summary

Page 1 of 4



Bridge & Total Project Replacement Cost Summary

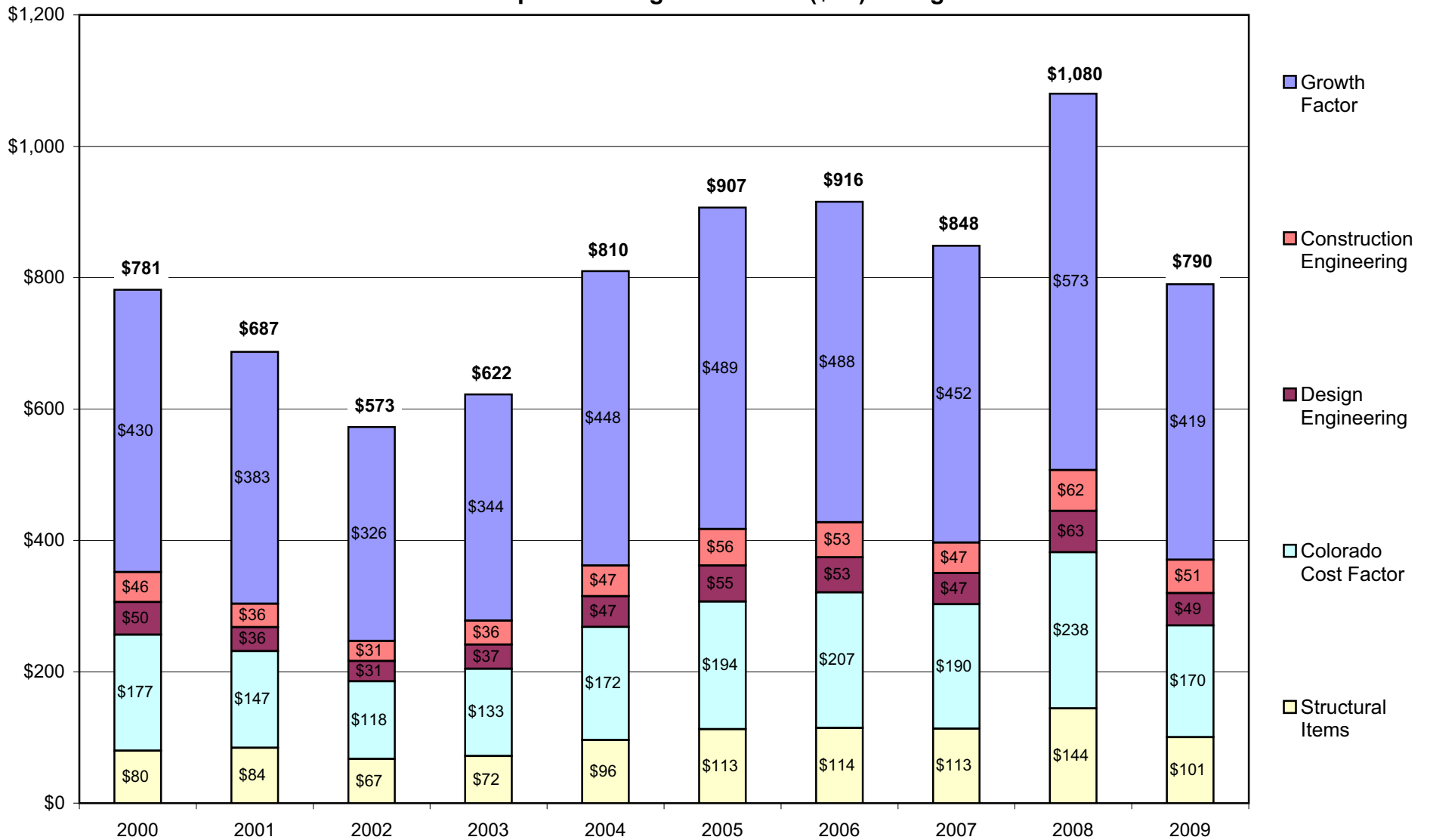
Page 2 of 4

Calendar Year	FHWA Bridge Only Replacement Cost based on New Bridge Deck Area, Annual Average (\$/sf)	Bridge Only Replacement Cost based on New Bridge Deck Area, Annual Average (\$/sf)	Colorado Cost Factor, Running Population Average of BR Projects only	Design Engineering Cost Factor, Running Population Average	Construction Engineering Cost Factor, Annual Average	Replacement Bridge Deck Area Growth Factor, Running Population Average	Calculated Bridge Replacement Total Project Cost based on Replaced Bridge Deck Area (\$/sf)	3 Year Running Average of the Calculated Bridge Replacement Total Project Cost based on Replaced Bridge Deck Area (\$/sf)
		S_{IN}	$COCF_{BR}$	DECF	CECF	GF	TPC_O	
2010		\$120	2.69	1.17	1.20	2.13	\$946	\$946
2009	\$83	\$101	2.69	1.17	1.20	2.13	\$790	\$906
2008	\$95	\$144	2.65	1.17	1.16	2.13	\$1,080	\$948
2007	\$106	\$113	2.67	1.16	1.15	2.14	\$848	\$890
2006	\$106	\$114	2.81	1.17	1.17	2.14	\$916	\$877
2005	\$81	\$113	2.72	1.17	1.19	2.17	\$907	\$780
2004	\$77	\$96	2.79	1.17	1.17	2.24	\$810	\$668
2003	\$55	\$72	2.85	1.19	1.17	2.24	\$622	\$627
2002	\$56	\$67	2.76	1.18	1.16	2.32	\$573	\$680
2001	\$58	\$84	2.75	1.16	1.15	2.26	\$687	
2000	\$72	\$80	3.22	1.23	1.14	2.22	\$781	
1999	\$65		1.75		1.15	2.20	\$288	\$260
1998	\$59		1.75		1.15	2.20	\$261	\$245
1997	\$52		1.75		1.15	2.20	\$230	\$227
1996	\$55		1.75		1.15	2.20	\$244	\$151
1995	\$47		1.75		1.15	2.20	\$208	

Notes:

- > The data used for this report is based on Projects with new major vehicular bridges only and does not include design/built projects, pedestrian bridges, widenings, CBCs, non-qualifying and minor structures, multi-phase bridges, design build, non CDOT bid projects (developer), tunnels, culverts and specialized (one of a kind) type bridges.
- > FHWA Bridge Only Replacement Cost is the unit cost for new or replaced highway bridges constructed with Federal funds on Federal-aid highways (highway bridges on the NHS and other Federal-aid highways). Only Federal eligible items used (see Definitions for a list on non-eligible items). This cost is reported annually to the FHWA as a requirement of the Federal Highway Bridge Program.
- > The Population Averages calculated for the Growth Factor, Colorado Cost Factor and DE Cost Factor are based on the average of all projects after 1999. In the future these factors will be calculated using the 10 yr Running Averages.
- > Replacement costs and cost factors from 1994 to 1999 are based on past Yearly NBI Bridge Replacement Cost Reports. Replacement costs and cost factors from 2000 on are calculated from data taken from Project Agreement Estimates and SAP Budget-to-Actual Reports for awarded bridge projects.
- > The Colorado Cost Index (CCI) Inflation Rates from Appendix I of the 12/14/06 2035 Revenue Forecast and Resource Allocation Report issued by the Office of Financial Management and Budget will be used to predict future replacement costs.
- > Formula used to calculate the Bridge Replacement Total Project Cost based on Replaced Bridge Deck Area = $TPC_O = S_{IN} \times COCF_{BR} \times (DECF + CECF - 1) \times GF$ (see Definitions for derivation)
- > FY10 Projected Bridge Total Project Replacement Cost = $1.044 \times \$906 = \946 .
- > The 2010 Bridge Only Replacement Cost based on New Bridge Deck Area, Annual Average (\$/sf) was calculated using the 2009 cost factors and the FY10 Projected Bridge Total Project Replacement Cost.

Cost Breakdown of the Calculated Bridge Replacement Total Project Cost based on Replaced Bridge Deck Area (\$/sf) Page 3 of 4



Percent Breakdown of the Calculated Bridge Replacement Total Project Cost based on Replaced Bridge Deck Area (\$/sf) Page 4 of 4

