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Memo

TO: Addressees

FROM: Mary Lacho
Estimates Engineer

DATE: October 31, 2012

SUBJECT: Cost Index – 2012 Second Quarter

The Minnesota Highway Construction Composite Cost Index was not computed for the second quarter of 2012 due to the absence of data for one of the six indicator items. Without a unit price for each indicator item, the resulting index is not comparable to previous indices.

- The average Excavation cost was \$5.03/CY, up \$1.28/CY from the second quarter of 2011. 16 projects were considered this quarter.
- The average Reinforcing Steel cost was \$1.17/lb, up \$0.08/lb from the second quarter of 2011. 10 projects were considered this quarter.
- No data for Structural Steel
- The average Structural Concrete cost was \$454.39/CY, down \$37.66/CY from the second quarter of 2011. 10 projects were considered this quarter.
- The average Concrete Pavement cost was \$106.81/CY, up \$24.64/CY from the second quarter of 2011. 5 projects were considered this quarter.
- The average Plant Mixed Bituminous cost was \$54.95/ton, up \$4.98/ton from the second quarter of 2011. 38 projects were considered this quarter.



Second quarter, 2012 project information is compared to second quarter, 2011 below.

Table 1: Indicator Costs

Item	Second Quarter 2011			Second Quarter 2012		
	Quantity	Cost *	Unit Cost	Quantity	Cost *	Unit Cost
Excavation	3,349,947 CY	\$12.58	\$3.75/CY	1,745,745 CY	\$8.79	\$5.03/CY
Reinforcing Steel	2,298,252 lb	\$2.51	\$1.09/lb	1,953,461 lb	\$2.29	\$1.17/lb
Structural Steel	738,300 lb	\$1.14	\$1.54/lb	0 lb	\$0.00	\$0.00/lb
Structural Concrete	18,561 CY	\$9.13	\$492.05/CY	14,173 CY	\$6.44	\$454.39/CY
Concrete Pavement	180,870 CY	\$14.86	\$82.17/CY	185,823 CY	\$19.85	\$106.81/CY
Plant-Mixed Bituminous	997,422 ton	\$49.84	\$49.97/ton	1,480,884 ton	\$81.37	\$54.95/ton
Total		\$90.06			\$118.73	

* millions of dollars

Table 2: Minnesota Highway Construction Project Summary

	Second Quarter 2011	Second Quarter 2012
Number of Projects Awarded	96	111
Awarded Amount (\$ million)	\$196.47	\$272.61
Total Number of Bidders	329	367
Average Number of Bidders	3.4	3.3
Number of Cost Index Projects	29	45
Cost Index Amount (\$ million)	\$90.06	\$118.73
Excavation Index	187.26	251.04
Structures Index	235.64	**
Surfacing Index	259.95	291.94
Composite Cost Index (CI)	241.97	**

** Not computed due to the absence of data for associated indicator items.

The average number of bidders per project was 3.4 for the second quarter of 2011. In comparison, the average number of second quarter bidders in 2012 was 3.3.

Attached is an explanation of the derivation of the Minnesota Cost index, charts of quarterly and annual Minnesota highway construction cost trends and a table and chart comparing the yearly Minnesota Composite Cost Index with the latest yearly FHWA Index.

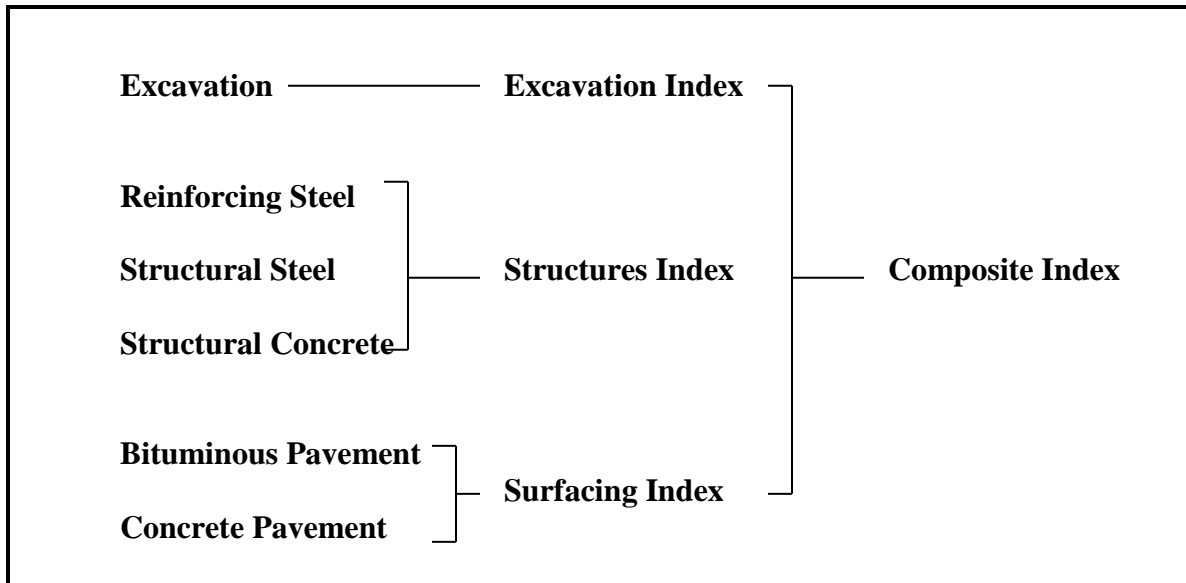
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Minnesota Construction Cost Index

The Minnesota Construction Cost Index is an indicator of price trends for highway construction.

It is composed of six indicator items: roadway excavation, to indicate the price trends for all roadway excavation; concrete pavement and plant-mixed bituminous, to indicate the price trend for all surfacing types; and reinforcing steel, structural steel, and structural concrete, to indicate the price trend for structures.

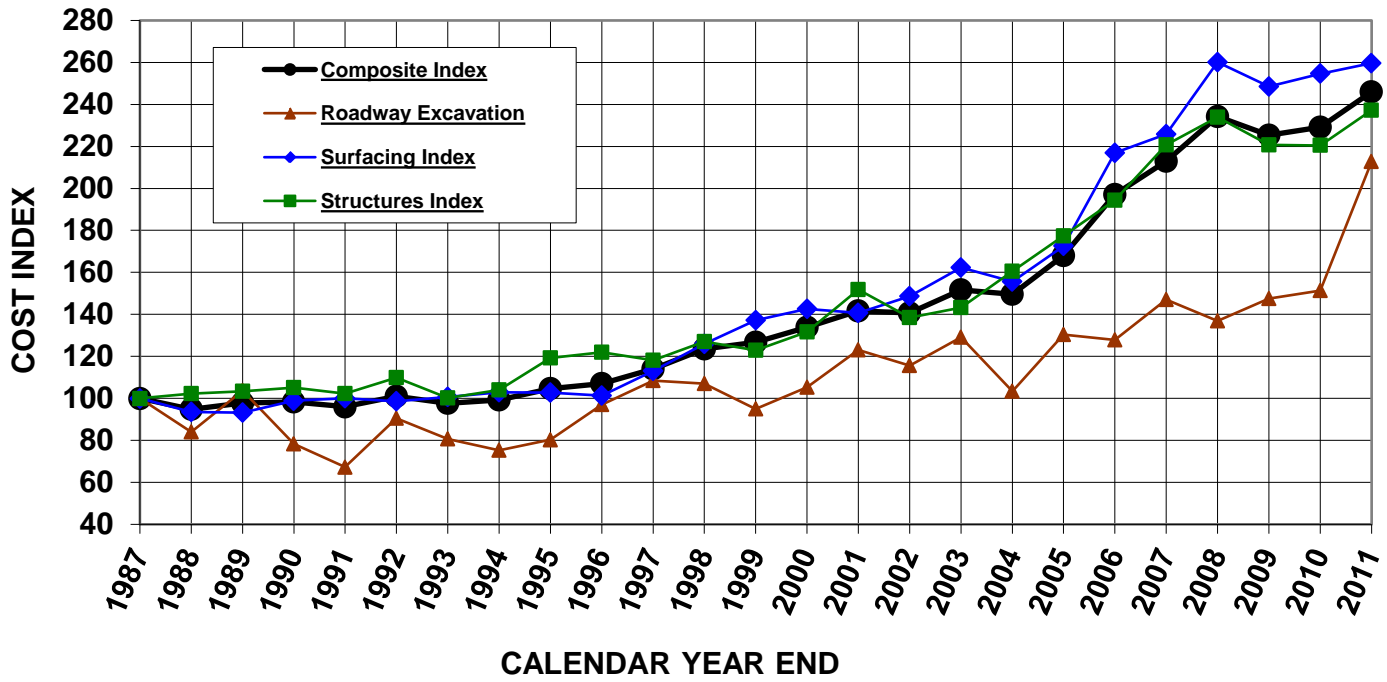


Each quarter, an average unit price is computed for each indicator item. The unit price is based upon the actual bids from projects **excluding Design Build projects**, costing more than \$100,000, and let during that quarter. These unit prices include the cost of material, labor, equipment, overhead and profit.

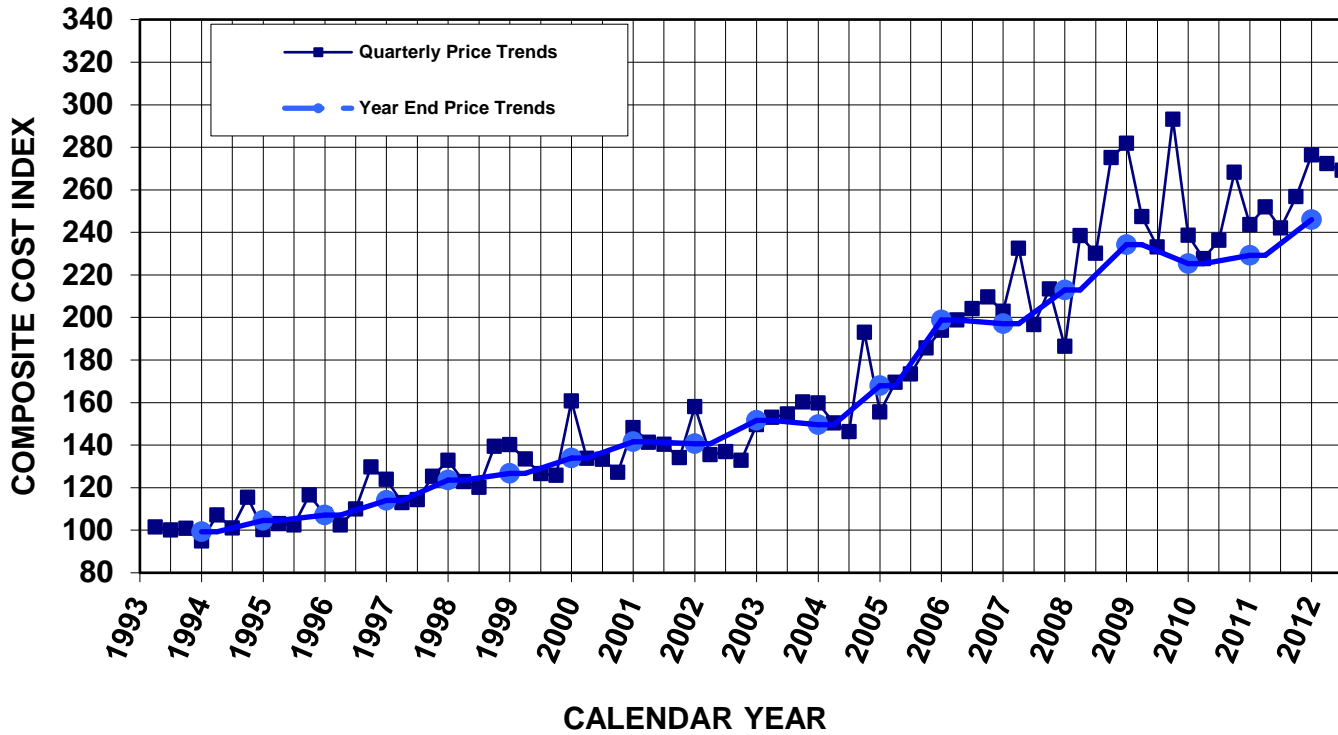
These unit prices along with the 1987 base unit prices and quantities are used to compute the Excavation, Surfacing, Structures and Composite Index.

Minnesota Highway Construction Cost Trends

ANNUAL PRICE TRENDS



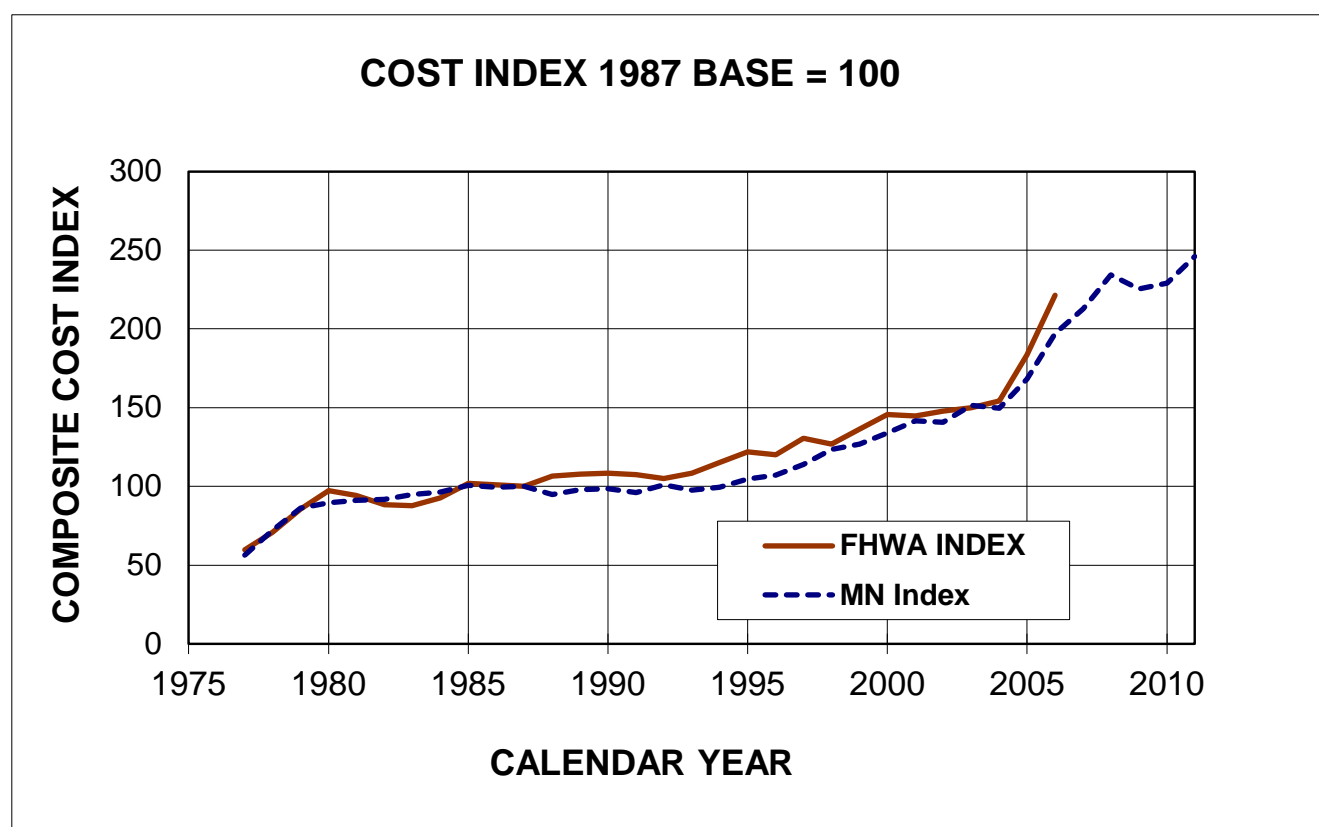
YEARLY & QUARTERLY PRICE TRENDS



NOTE: In 2007, the FHWA stopped collecting Price Trend data, and no longer provide the reports necessary to complete the comparison graphs.

HIGHWAY CONSTRUCTION COST INDEX 1987 BASE-100

<u>Year End</u>	<u>FHWA Index</u>	<u>MN Index</u>
1975		
1976		
1977	59.80	56.40
1978	70.70	72.10
1979	85.50	86.30
1980	97.20	89.60
1981	94.20	91.20
1982	88.50	91.80
1983	87.60	94.80
1984	92.60	96.40
1985	102.00	100.70
1986	101.10	99.60
1987	100.00	100.00
1988	106.60	94.90
1989	107.70	97.90
1990	108.50	98.40
1991	107.50	96.00
1992	105.10	101.00
1993	108.30	97.70
1994	115.10	99.30
1995	121.90	104.60
1996	120.20	107.10
1997	130.60	114.00
1998	126.90	123.58
1999	136.50	126.75
2000	145.60	133.91
2001	144.80	141.61
2002	147.90	140.73
2003	149.80	151.60
2004	154.40	149.61
2005	183.60	167.97
2006	221.30	197.10
2007		212.88
2008		234.22
2009		225.32
2010		229.17
2011		245.95



1987 Base Year = 100
 FHWA Index includes projects > \$500,000
 Mn/DOT Index includes projects > \$100,000

MN/DOT COST INDEX

<u>Year</u>	<u>Roadway Excavation</u>	<u>Bituminous Surfacing</u>	<u>Concrete Surfacing</u>	<u>Surfacing Index</u>	<u>Reinforce. Steel</u>	<u>Structural Steel</u>	<u>Structural Concrete</u>	<u>Structures Index</u>	<u>Composite Index</u>
1987	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1988									
1st Quarter	66.35	92.87	76.99	89.60	108.25	113.11	91.18	98.44	88.98
2nd Quarter	111.84	96.02	107.04	98.29	107.22	103.87	95.60	99.37	100.58
3rd Quarter	87.81	94.14	104.76	96.33	110.27	110.57	110.45	110.43	99.46
4th Quarter	89.72	103.63		103.63	115.44	107.04	94.37	100.80	100.39
Year End	84.08	95.68	85.55	93.59	109.73	109.34	97.90	102.26	94.90
1989									
1st Quarter	121.34	88.57	92.72	89.42	120.87	141.72	101.41	112.36	101.11
2nd Quarter	137.56	70.45	87.63	89.56	108.73	102.24	98.24	101.04	90.35
3rd Quarter	137.56	107.54	135.39	113.28	116.66	107.48	94.73	101.34	113.09
4th Quarter		91.13		91.13	138.53	121.78	146.33	140.47	111.64
Year End	103.72	92.01	94.50	93.23	115.99	111.15	97.29	103.45	97.90
1990									
1st Quarter	75.54	100.19	81.67	96.37	115.62	140.73	102.05	111.55	98.06
2nd Quarter	67.71	96.79	104.57	98.39	122.11	105.43	110.57	111.97	98.17
3rd Quarter	97.07	122.17	102.13	118.04	117.17	112.70	92.03	100.67	109.65
4th Quarter	66.99	106.72	148.85	115.41	118.55	108.99	133.76	126.38	111.83
Year End	78.30	100.58	97.24	98.89	117.48	112.81	99.09	105.17	98.41
1991									
1st Quarter	86.48	103.02	111.23	104.71	115.23	123.22	91.37	101.72	101.16
2nd Quarter	67.72	96.75	105.58	98.57	110.99	128.81	103.22	109.27	97.43
3rd Quarter	105.04				122.95		110.48	113.49	110.44
4th Quarter	47.98	81.65	111.81	87.87	106.38	84.44	80.29	86.22	81.62
Year End	67.31	97.72	109.11	100.07	111.54	121.31	93.98	102.28	96.04
1992									
1st Quarter	134.20	110.24	90.36	106.14	106.10	96.66	92.71	96.07	107.07
2nd Quarter	84.69	95.94	103.65	97.53	119.25	109.95	112.93	113.67	100.67
3rd Quarter	90.06	102.36	92.40	100.31	99.53	108.35	131.75	121.22	105.29
4th Quarter	99.54	105.41		105.41	105.69	91.58	116.35	109.83	106.01
Year End	90.60	99.05	97.07	98.64	106.37	105.54	112.38	109.98	100.98
1993									
1st Quarter	81.02	104.73	87.06	101.08	118.06	139.75	102.08	111.88	101.53
2nd Quarter	81.51	101.97	101.79	101.93	109.83	128.78	97.52	105.46	100.08
3rd Quarter		117.01		117.01	97.06		65.66	73.25	100.83
4th Quarter	73.97	94.47	84.12	92.33	119.80	112.58	104.90	109.22	94.91
Year End	80.75	101.91	96.30	100.75	108.13	127.30	90.07	100.21	97.70
1994									
1st Quarter	115.56	97.54	95.57	97.13	115.00	95.98	123.67	120.83	107.11
2nd Quarter	75.92	102.90	104.22	103.17	114.87		109.55	110.84	101.09
3rd Quarter	152.37	109.02	136.56	114.70	99.78	111.66	96.09	99.56	115.44
4th Quarter	65.52	110.42	103.89	109.08	109.23	98.51	98.97	100.93	100.29
Year End	75.38	102.48	104.96	102.99	105.52	110.88	101.55	103.98	99.32
1995									
1st Quarter	85.69	95.53	115.74	99.70	120.72	122.37	114.68	117.23	103.10
2nd Quarter	71.02	99.49		99.49	121.32	132.48	117.95	121.17	102.42
3rd Quarter	77.42	113.46	111.29	113.02	151.42		144.16	145.92	116.46
4th Quarter	92.70	107.55	109.43	107.93	121.52		111.82	114.16	107.29
Year End		99.81	113.94	102.73	121.47	126.83	116.53	119.32	104.63
1996									
1st Quarter	83.05	92.20	123.35	98.62	118.80	178.06	100.96	118.05	102.38
2nd Quarter	119.58	95.01	113.11	98.74	130.48		127.59	128.29	109.88
3rd Quarter	124.27	131.87	150.79	135.77	120.96		119.41	119.79	129.72
4th Quarter	95.12	124.66	113.40	122.34	141.02		144.36	143.55	123.91
Year End	97.01	97.12	117.89	101.40	120.85	178.06	106.59	121.98	107.13
1997									
1st Quarter	117.41	107.57	112.89	108.66	117.44	93.82	125.60	118.39	112.93
2nd Quarter	96.00	107.53	153.26	116.96	129.60	107.48	117.89	118.40	114.38
3rd Quarter	122.35	130.99		130.99	124.92	119.62	116.28	118.59	125.27
4th Quarter	127.75	134.59	0.00	134.59					132.88
Year End	108.51	109.84	125.63	113.10	122.08	99.44	122.32	118.25	114.03
1998									
1st Quarter	100.29	124.56	135.20	126.75	130.86		125.58	126.86	122.75
2nd Quarter	104.63	122.21	133.04	124.44	123.71		118.20	119.53	120.10
3rd Quarter	135.95	150.01	129.84	145.85	133.21		126.04	127.51	139.40
4th Quarter		155.16		155.16	122.66	146.08	110.58	119.22	140.22
Year End	106.99	124.06	132.22	125.95	127.70	146.08	121.58	127.10	123.58
1999									
1st Quarter	90.59	130.95	210.30	147.31	133.64		126.39	128.14	133.51
2nd Quarter	92.34	137.50	139.09	137.83	121.34		121.92	121.78	126.58
3rd Quarter	85.22	135.66		135.66	125.58	168.87	121.78	130.81	125.78
4th Quarter	182.25	143.08	202.56	155.34	132.10	107.12	183.75	160.00	160.66
Year End	95.07	135.87	142.46	137.23	124.73	114.64	124.72	122.95	126.75

MN/DOT COST INDEX
(CONTINUED)

<u>Year</u>	<u>Roadway Excavation</u>	<u>Bituminous Surfacing</u>	<u>Concrete Surfacing</u>	<u>Surfacing Index</u>	<u>Reinforce. Steel</u>	<u>Structural Steel</u>	<u>Structural Concrete</u>	<u>Structures Index</u>	<u>Composite Index</u>
2000									
1st Quarter	96.35	141.29	153.08	143.73	142.36	151.96	125.61	133.57	133.77
2nd Quarter	111.93	138.88	158.17	142.86	137.49	136.03	120.21	126.43	133.33
3rd Quarter	102.18	128.03		128.03	137.29		140.48	139.71	127.13
4th Quarter	115.61	136.47	170.73	143.53	149.27		185.41	176.66	148.21
Year End	105.38	138.87	157.19	142.65	139.49	137.59	127.59	131.71	133.91
2001									
1st Quarter	91.27	131.58	133.42	131.96	166.65		196.86	189.55	141.28
2nd Quarter	116.05	135.28	149.20	138.15	135.53	219.62	144.03	155.60	140.36
3rd Quarter	109.17	130.04	154.51	135.09	140.67	166.76	138.68	144.01	134.11
4th Quarter	157.83	160.90	185.56	165.98	149.31	86.82	158.62	144.16	158.06
Year End	123.17	137.25	153.92	140.69	142.53	171.70	149.25	151.85	141.61
2002									
1st Quarter	123.44	147.14	119.78	141.50	151.68	143.03	120.19	130.48	135.49
2nd Quarter	148.48	149.69	140.07	147.71	150.31	165.23	85.03	112.13	136.82
3rd Quarter		132.77		132.77					132.77
4th Quarter	95.26	157.12	161.93	158.12	167.64	154.74	158.85	159.88	149.61
Year End	115.64	150.27	142.16	148.60	159.74	157.32	126.43	138.49	140.73
2003									
1st Quarter	119.16	168.38	149.65	164.51	165.32	124.83	149.85	148.55	153.05
2nd Quarter	149.11	166.29	171.88	167.44	168.38	109.25	130.53	134.34	154.57
3rd Quarter	126.34	162.12	190.96	168.07	166.04		161.37	162.50	160.21
4th Quarter	142.18	144.11		144.11	162.08	139.53	213.05	189.98	159.77
Year End	129.12	163.83	156.17	162.25	166.37	116.91	143.23	143.23	151.60
2004									
1st Quarter	89.34	157.99	145.67	155.45	184.40	166.06	166.16	169.78	150.36
2nd Quarter	101.93	156.99	153.21	156.21	193.40		135.92	149.83	146.23
3rd Quarter	156.87	173.66	220.06	183.23	231.70	126.15	253.80	226.99	192.95
4th Quarter	171.37	153.88	126.70	148.28	175.45	195.43	146.69	160.98	155.53
Year End	103.48	159.35	141.15	155.60	191.19	162.96	150.02	160.50	149.61
2005									
1st Quarter	91.95	159.35	221.30	172.12	206.72	281.37	176.99	201.24	169.57
2nd Quarter	152.75	163.52	230.40	177.31	206.89	201.87	159.27	176.24	173.44
3rd Quarter	135.85	214.40	173.97	206.06	195.34	199.90	158.17	172.91	185.71
4th Quarter	131.93	211.41		211.41	219.49		192.75	199.22	193.94
Year End	130.43	169.66	183.55	172.53	202.26	201.13	162.78	177.39	167.97
2006									
1st Quarter	179.64	216.37	168.40	206.48	209.17	167.23	196.99	194.19	198.82
2nd Quarter	137.70	241.00	191.38	230.77	192.81	194.21	184.52	187.87	204.11
3rd Quarter	137.17	217.53	*	**	257.26	*	230.67	**	**
4th Quarter	95.01	228.13	*	**	247.81	*	212.00	**	**
Year End	127.80	228.04	173.91	216.88	205.99	183.53	193.74	194.39	197.10
2007									
1st Quarter	190.17	255.61	222.49	248.78	236.81	283.08	202.21	223.31	232.47
2nd Quarter	114.76	224.06	155.14	209.85	221.84	187.19	214.66	211.27	196.60
3rd Quarter	*/**	213.40	*	**	*	*	*	**	**
4th Quarter	117.03	209.36	*	**	*	*	*	**	**
Year End	147.02	232.91	198.59	225.84	233.69	262.24	204.79	220.64	212.88
2008									
1st Quarter	143.43	235.23	361.90	261.34	409.19	*	189.70	**	**
2nd Quarter	134.37	278.48	170.51	256.22	286.47	267.39	199.61	228.83	230.20
3rd Quarter	*/**	314.60	*	**	295.44	215.32	196.42	219.48	**
4th Quarter	217.71	350.82	*	**	242.71	*	187.20	**	**
Year End	136.85	282.00	175.62	260.06	349.63	239.92	195.24	233.87	234.22
2009									
1st Quarter	130.35	267.53	179.27	249.34	212.65	703.64	212.26	298.60	247.42
2nd Quarter	205.07	254.33	210.92	245.38	220.70	249.11	218.60	224.37	233.08
3rd Quarter	*/**	293.20	*	**	*	*	*	**	**
4th Quarter	255.96	266.65	174.42	247.63	202.59	*	211.65	**	**
Year End	147.46	265.08	184.33	248.43	213.94	252.12	214.03	220.70	225.32
2010									
1st Quarter	118.81	297.94	155.03	268.47	215.46	171.69	212.82	206.13	227.65
2nd Quarter	207.89	271.58	181.95	253.10	226.17	253.31	208.48	219.88	236.32
3rd Quarter	266.22	268.87	*	**	*	*	*	**	**
4th Quarter	263.08	260.16	186.16	244.90	222.91	197.32	245.20	232.35	243.64
Year End	151.35	277.15	167.66	254.58	222.32	197.81	226.24	220.47	229.17
2011									
1st Quarter	282.29	277.18	138.12	248.51	267.60	*	233.93	**	**
2nd Quarter	187.26	289.19	147.37	259.95	249.70	216.82	236.44	235.64	241.97
3rd Quarter	206.87	306.20	130.31	269.94	*	*	*	**	**
4th Quarter	290.62	311.17	161.76	280.36	253.69	*	261.73	**	**
Year End	212.74	289.32	145.22	259.61	254.49	216.82	237.48	237.25	245.95
2012									
1st Quarter	171.16	331.90	164.11	297.30	285.15	*	272.55	**	**
2nd Quarter	251.04	318.01	191.58	291.94	267.40	*	218.35	**	**

* No information available

**Not computed due to the absence of data for indicator item(s).