# **STATE OF COLORADO**



**DEPARTMENT OF TRANSPORTATION Contracts and Market Analysis Branch**4201 East Arkansas Avenue, 4<sup>th</sup> Floor
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(303) 757-9736

October 3, 2008

### COLORADO CONSTRUCTION COST INDEX REPORT Calendar year 2008 Third Quarter

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# STATE OF COLORADO



# DEPARTMENT OF TRANSPORTATION Contracts and Market Analysis Branch

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#### **SUMMARY**

#### CONSTRUCTION COST INDEX FOR SELECTED HIGHWAY CONSTRUCTION ITEMS

3rd QUARTER ENDING September 30, 2008

Index for this quarter	419.2
Index for last quarter	
Point change from last quarter	128.3
Percentage change from last quarter	
Index for same quarter of last year	
Point change from same quarter last year	90.9
Percentage change from this quarter last year	+27.7%
4-quarter moving average	

Average number of bidders this quarter4.9	7
Change in number of bidders from last quarter+6.	9%

NOTE: All information shown in this publication was assembled using 1987 as the base year.

## Summary Report for all the projects awarded betwee 7/1/2008 And 9/30/2008

Project Amount	No. of Projects	No. of Bidders	Total Contract Amt. Avg. # of Bids			
\$0.00 to \$49,999.99	0					
\$50,000.00 to \$99,999.99	0					
\$100,000.00 to \$249,999.99	3	19	\$508,990.00	6.3		
\$250,000.00 to \$499,999.99	16	71	\$6,245,947.99	4.4		
\$500,000.00 to \$999,999.99	8	42	\$5,524,711.30	5.3		
1,000,000.00 to \$2,499,999.99	6	31	\$8,406,793.19	5.2		
2,500,000.00 to \$4,999,999.99	1	7	\$3,968,834.70	7.0		
5,000,000.00 to \$9,999,999.99	1	6	\$5,395,771.45	6.0		
10,000,000.00 to \$19,999,999.99	0					
20,000,000.00 to \$49,499,999.99	1	3	\$21,624,300.00	3.0		
50,000,000.00 or Greater	0					

Total	36	179	\$51,675,348.63
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The number of bidders on all projects awards during this period averaged 4.97 bidders per contract. Average cost per project is \$1,078,612.59 (avg. cci 1994=118.8 / avg. cci 1998 =158.1) in 1994 dollars.

### CCI ITEMS USED FROM 7/1/2008 TO 9/30/2008

QUANTITY

PRICE

UNIT PRICE INDEX

# OF ITEM

**ITEM CODE** 

	# OF ITEM	QUANTITY	PRICE	UNIT PRICE	INDEX
203-00000 To 203-00060 203-00062 To 203-00210 203-00400 To 203-00500	13	English (CY) 102,179.00	\$1,238,108.75	\$12.12	
203-01020 To 203-01030 209-00000 To 209-00050	0	Metric (CM) <b>0.00</b>	\$0.00	\$0.00	
UNCLASSIFIED EXCAV (CIP)	13	102,179.00 <sup>CY</sup>	\$12.12	490.4	
403-00720, 403-01000, 403-01010, 403-02000, 403-09121 To 403-09500	34	English (TON) 63,698.38	\$6,155,273.60	\$96.63	
403-31300 To 403 36447 403-91401 To 403-95353 411-03100 To 411-03355 411-10010 To 411-90010 (Gal/Lit Gallon & Liter are converted to Ton		Metric (MT) <b>0.00</b>	\$0.00	\$0.00	
HOT MIX ASPHALT (H A)	34	63,698.38 T	\$6,155,273.60	\$96.63	418.0
412-00000 To 412-00050	11	English (SY) 17,581.59	\$937,210.81	\$53.31	
412-00700 To 412-01352 412-03000 To 412-03000	0	Metric (SM) 0.00	\$0.00	\$0.00	
CONCRETE PAVEMENT (9")	11	17,581.59 <sup>SY</sup>	\$937,210.81	\$53.31	399.0
			SURFACING TO	OTAL INDEX	415.2
509-00000 To 509-00000	0	English (LB) 0.00	\$0.00	\$0.00	
	0	Metric (KG) <b>0.00</b>	\$0.00	\$0.00	
STRUCTURAL STEEL	0		\$0.00 \$0.00	\$0.00 \$0.00	0.0
STRUCTURAL STEEL  601-01022 To 601-01022		0.00		·	0.0
	0	0.00	\$0.00	\$0.00	0.0
601-01022 To 601-01022 601-01030 To 601-01060	8	0.00 D.00 LB English (CY) 4,114.40 Metric (CM)	\$0.00 \$3,423,573.00	<b>\$0.00</b> <b>\$832.10</b>	382.9
601-01022 To 601-01022 601-01030 To 601-01060 601-03030 To 601-05064 STRUCTURAL CONCRETE	0 8 0	0.00 LB  English (CY) 4,114.40  Metric (CM) 0.00	\$0.00 \$3,423,573.00 \$0.00	\$0.00 \$832.10 \$0.00	-
601-01022 To 601-01022 601-01030 To 601-01060 601-03030 To 601-05064	0 8	0.00  0.00  English (CY) 4,114.40  Metric (CM) 0.00  4,114.40  English (LB)	\$0.00 \$3,423,573.00 \$0.00 \$3,423,573.00	\$0.00 \$832.10 \$0.00 \$832.10	-

STRUCTURAL TOTAL INDEX

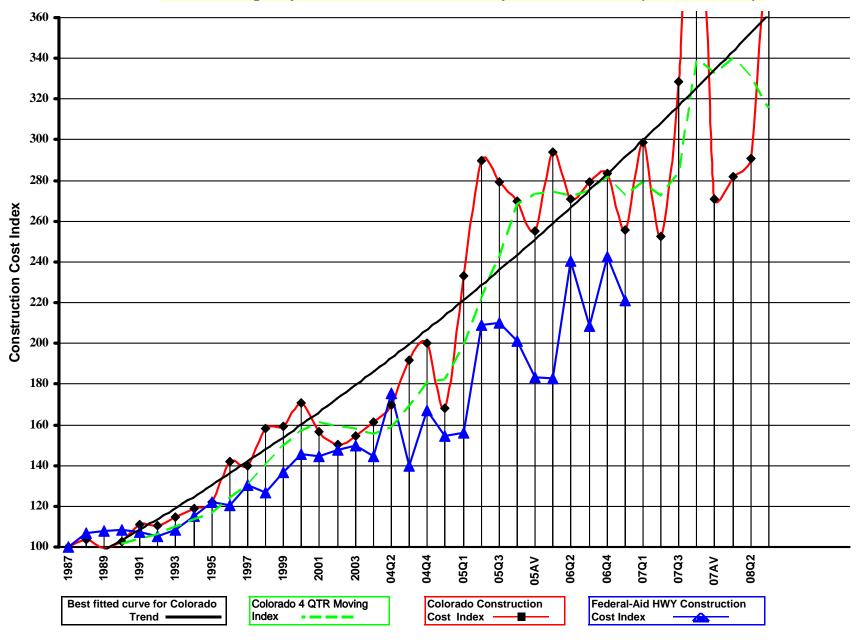
377.3

COMPOSITE INDEX = 419.2

Sum of the 6 categories cost = \$12,969,583.91
HBP Unit Price per CY = \$191.33

Concrete Pavement Unit Price per CY = \$213.23
Page 1 of 1

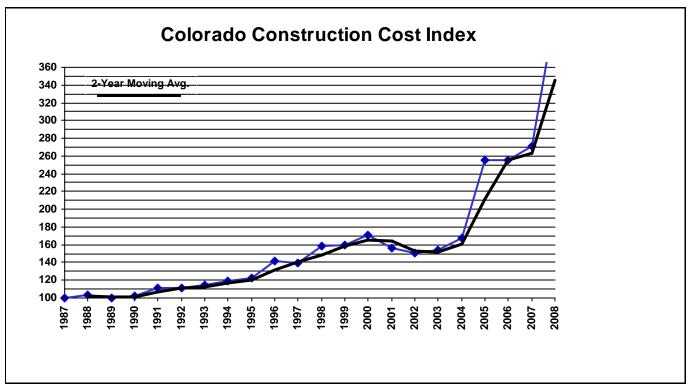
### Colorado Highway Construction Cost Index Graph and Tabulations (1987 Base Year)

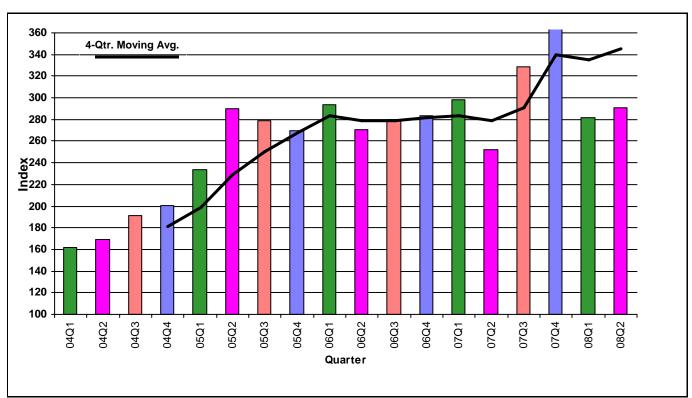


YEAR	QTR.	<b>Earthw</b> Bid Price	<b>/ork</b> Index	Asph. Pa Bid Price		Concrete I Bid Price	Pavement Index	Surfacing Index	Structural Bid Price	Concrete Index	<b>Reinforci</b> Bid Price	ng Steel Index	Structura Bid Price	al Steel Index	Structural Index	Composite Index
1987	1987	\$2.47	100.0	\$23.17	100.0	\$13.36	100.0	100.0	\$217.32	100.0	\$0.41	100.0	\$0.85	100.0	100.0	100.0
1988	1988	\$2.92	118.1	\$23.88	103.0	\$13.84	103.6	103.1	\$195.02	89.7	\$0.45	110.7	\$0.89	104.1	96.7	103.7
1989	1989	\$2.57	103.9	\$23.67	102.2	\$11.65	87.2	100.6	\$199.41	91.8	\$0.40	97.8	\$0.88	103.5	95.3	99.6
1990	1990	\$2.78	112.5	\$23.98	103.5	\$15.09	113.0	104.5	\$190.86	87.8	\$0.37	90.8	\$0.99	116.0	94.1	102.7
1991	1991	\$3.31	133.8	\$26.25	113.3	\$16.03	120.0	114.0	\$195.43	89.9	\$0.38	93.1	\$0.89	104.4	93.5	111.2
1992	1992	\$2.77	112.3	\$26.20	113.1	\$23.82	178.3	119.8	\$216.87	99.8	\$0.36	87.9	\$0.71	82.8	94.0	110.7
1993	1993	\$3.25	131.4	\$27.74	119.7	\$16.75	125.4	121.3	\$212.43	97.7	\$0.37	90.1	\$0.79	93.0	95.3	114.7
1994	1994	\$3.56	144.2	\$28.40	122.6	\$18.78	140.6	124.4	\$219.94	101.2	\$0.37	89.7	\$0.67	78.8	94.4	118.8
1995	1995	\$3.41	138.1	\$30.25	130.5	\$17.82	133.4	130.8	\$211.29	97.2	\$0.39	94.0	\$0.90	105.5	98.3	122.3
1996	1996	\$4.46	180.5	\$32.73	141.3	\$19.22	143.9	141.5	\$265.98	122.4	\$0.43	105.1	\$1.09	128.5	120.2	141.7
1997	1997	\$4.24	171.7	\$32.92	142.1	\$21.39	160.1	143.9	\$246.29	113.3	\$0.45	110.8	\$1.01	117.9	113.8	139.6
1998	1998	\$4.89	198.0	\$35.72	154.2	\$26.54	198.7	158.7	\$283.01	130.2	\$0.50	122.0	(\$1.00)	-1.0	128.2	158.1
1999	1999	\$4.94	199.8	\$35.23	152.0	\$22.78	170.5	153.9	\$310.56	142.9	\$0.54	132.0	\$1.41	165.3	145.3	159.2
2000	2000	\$5.25	212.6	\$40.02	173.0	\$20.56	153.9	170.8	\$346.82	159.6	\$0.47	115.2	\$1.18	138.8	146.8	170.7
2001	2001	\$4.19	169.5	\$38.67	167.4	\$17.45	130.6	163.2	\$303.22	139.5	\$0.50	120.9	\$1.29	151.5	138.4	156.8
2002	2002	\$3.74	151.2	\$37.99	164.7	\$24.81	185.7	166.2	\$285.35	131.3	\$0.50	121.3	\$0.78	91.9	121.4	150.1
2003	2003	\$4.42	178.9	\$38.23	165.7	\$20.91	156.6	164.1	\$289.44	133.2	\$0.55	133.4	\$0.72	84.7	123.4	154.4
2004	04Q1	\$3.94	159.7	\$36.03	156.1	\$31.13	233.0	163.5	\$297.69	137.0	\$0.71	172.4	\$1.78	208.9	158.4	161.3
2004	04Q2	\$5.84	236.6	\$35.97	155.9	\$28.42	212.8	161.2	\$297.92	137.1	\$0.78	190.1	\$1.13	132.9	146.5	169.6
2004	04Q3	\$4.38	177.1	\$43.33	188.0	\$27.59	206.5	189.0	\$350.71	161.4	\$0.91	221.3	\$2.70	316.3	204.4	191.6
2004	04Q4	\$7.39	298.9	\$41.45	179.2	\$40.01	299.5	191.3	\$305.55	140.6	\$0.74	179.9	\$0.00	0.0	150.1	200.3
2004	04AV	\$4.60	186.1	\$37.43	162.1	\$28.96	216.8	167.2	\$323.50	148.9	\$0.83	202.7	\$1.26	147.6	159.0	168.0
2005	05Q1	\$9.43	381.7	\$41.99	182.3	\$60.10	449.9	208.8	\$443.32	204.0	\$0.91	222.2	\$1.10	128.9	192.2	233.3
2005	05Q2	\$16.07	650.5	\$44.19	192.4	\$28.54	213.6	193.1	\$540.39	248.7	\$0.98	240.0	\$0.00	0.0	246.6	289.8
2005	05Q3	\$9.74	394.2	\$57.71	249.5	\$34.29	256.7	249.9	\$491.90	226.4	\$0.97	237.3	\$3.50	410.2	265.9	279.3
2005	05Q4	\$12.52	506.9	\$52.73	228.4	\$56.18	420.5	247.4	\$407.63	187.6	\$0.81	198.2	\$0.97	113.7	174.6	269.7
2005	05AV	\$12.90	522.0	\$44.17	191.8	\$30.69	229.8	194.7	\$508.77	234.1	\$0.96	232.9	\$1.01	118.4	210.4	255.2
2006	06Q1	\$11.48	464.6	\$54.99	238.8	\$47.80	357.8	249.7	\$566.84	260.9	\$1.22	296.5	\$0.00	0.0	269.5	293.8
2006	06Q2	\$10.68	432.4	\$58.85	255.1	\$28.40	212.6	249.7	\$426.20	196.1	\$1.11	271.4	\$1.93	226.1	216.8	270.9
2006	06Q3	\$7.03	284.7	\$74.90	323.5	\$26.79	200.6	310.6	\$439.17	202.1	\$0.91	222.3	\$0.00	0.0	207.0	279.4
2006	06Q4	\$6.20	251.1	\$67.40	291.4	\$45.03	337.1	295.6	\$387.04	178.1	\$0.79	191.9	\$5.70	667.6	280.3	283.4
2006	06AV	\$7.54	305.1	\$59.61	258.4	\$33.79	253.0	256.8	\$430.27	198.0	\$0.92	223.5	\$2.62	306.9	225.1	255.5
2007	07Q1	\$9.68	391.6	\$63.57	274.9	\$54.18	405.6	287.8	\$564.69	259.9	\$1.41	343.2	\$1.75	205.1	264.8	298.6
2007	07Q2	\$5.99	242.5	\$67.30	290.9	\$38.03	284.7	289.9	\$468.58	215.6	\$0.89	217.7	\$0.85	99.8	192.5	252.5
2007	07Q3	\$10.32	417.6	\$81.60	352.9	\$28.59	214.0	338.0	\$588.03	270.6	\$1.06	258.9	\$2.00	234.4	261.0	328.3
2007	07Q4	\$17.76	719.0	\$103.64	448.2	\$98.13	734.6	476.8	\$563.39	259.3	\$1.02	249.2	\$5.90	691.1	345.1	478.4
2007	07AV	\$7.18	290.5	\$66.58	287.9	\$37.76	282.7	286.9	\$546.29	251.4	\$1.01	245.7	\$1.40	163.6	232.4	271.1
2008	08Q1	\$10.52	425.9	\$64.79	280.6	\$48.08	359.9	287.9	\$334.70	154.0	\$0.83	202.1	\$0.00	0.0	165.7	281.7
2008	08Q2	\$9.35	378.4	\$74.05	321.5	\$29.27	219.1	309.3	\$436.09	200.7	\$1.03	251.6	\$1.65	193.6	209.1	290.9
2008	08Q3	\$12.12	490.4	\$96.63	418.0	\$53.31	399.0	415.2	\$832.10	382.9	\$1.48	359.8	\$0.00	0.0	377.3	419.2

View Annual/Qtr

View Tabular Report





#### Comments:

This Colorado Construction Cost Index is composed of six indicator items and based on bid prices relative to the unit prices of 1987 (unit index=100). The Index varies due to type and location of projects in addition to overall economic conditions.

#### Earthwork (Excavation and Embankment):

The average price was \$12.12 a cu. yd. which is up \$2.77 from the previous quarter. Earthwork quantities declined to less than 10 percent of the last quarter.

#### Hot Mix Asphalt:

The average price was \$96.63 a ton which is up \$22.58 from the previous quarter. In the third quarter asphalt cement shortages and fuel price increases caused higher HMA prices. In addition, very few large asphalt overlay projects were bid in the third quarter.

#### Concrete Pavement:

The average price was \$53.31 a sq. yd. which is up \$24.04 from the previous quarter. Concrete pavement quantities declined to less than 1 percent of the last quarter. Low quantities are the dominant reason for the increase. Higher steel and fuel prices also contributed to the increase.

#### Structural Steel:

No project with a structural steel item was awarded in the third quarter.

#### Structural Concrete:

The average price was \$832.10 a cu. yd. which is up \$396.01 from the previous quarter. Very small quantities and an increase in fuel and steel prices contributed to the increase.

#### Reinforcing Steel:

The average price was \$1.48 a lb which is up \$0.45 from the previous quarter. Fewer projects with large reinforcing steel quantities were awarded this quarter. In addition, steel prices have increased over this quarter.

#### ADDITIONAL INFORMATION:

For the 3<sup>rd</sup> quarter, no category indices showed a decrease. The category indices showing an increase were Earthwork, Hot Mix Asphalt, Concrete Pavement, Structural Concrete, and Reinforcing Steel.

Engineering Estimates and Market Analysis (EEMA) believes the third quarter CCI data is exaggerated to the upside due to the relatively small size of the projects since lower quantities result in lower production rates and thus higher unit costs. A mixture of higher fuel, asphalt cement, steel costs and a shortage of asphalt cement contributed to the increase. The 4-quarter moving average, which smoothes out the short term swings, is at around 367.6, which is more in line with actual market conditions.

36 projects were bid and awarded this quarter for a total of \$51,675,348.63. By comparison, 56 projects were bid last quarter. The six categories for CCI items totaled \$12,969,583.91, which is 25.1% of the total awarded amount. 19 maintenance contract projects were bid this quarter. No metric, Lump Sum or Design Build projects were bid this quarter.

The competition for projects increased to 4.97 bidders from 4.43 bidders for each project on average from last quarter.