

## Memo

Office of Technical Support **Estimating Unit** Mail Stop 692 395 John Ireland Boulevard St. Paul, MN 55155

September 2, 2008

To: Addressees

From: **Nancy Sannes** 

**Estimates Engineer** 

Subject: Cost Index – 2008 Second Quarter

The Cost Index for the Second Quarter of 2008 is 230.20. This is a 17% increase over the Second Quarter of 2007.

Office: (218) 725-2786

Fax:(651) 366-4677

- The average Excavation cost was \$2.69/CY, up \$0.39/CY from the second quarter of 2007. Eight projects were considered this quarter.
- The Reinforcing Steel cost was \$1.26/lb, up \$0.29/lb from the second guarter of 2007. Ten projects were considered this quarter.
- The Structural Steel cost was \$1.90/lb, up \$0.57/lb from the second quarter of 2007. One project was considered this quarter.
- The Structural Concrete cost was \$415.39/CY, down \$31.33/CY from the second quarter of 2007. Seven projects were considered this quarter.
- The Concrete Pavement cost was \$95.07/CY, up \$8.57/CY from the second quarter of 2007. Six projects were considered this quarter.
- The average Plant Mixed Bituminous cost was \$48.12/ton, up \$9.40/ton from the second quarter of 2007. Twenty nine projects were considered.

Excavation prices are rising in the midst of fuel prices. According to the Energy Information Administration (EIA), fuel prices have increased by 64% over the second quarter of last year. Although, prices for fuel over the last month have declined, the EIA is projecting an increase in the price of fuel for next year. While there has been limited supply interruption due to hurricanes, and US demand has declined somewhat, world wide demand, particularly in China, will most certainly out pace any decline in the US.

Steel prices are increasing just as we are beginning to use more of these materials. As you can see from the data below, steel constitutes the smallest component of the cost index. It should be noted that steel cable used for pre-stressed products and post tensioned construction is not included in the cost index data.

Concrete Paving prices have increased as well. Of note here, the data below indicates that a significant increase in paving quantities accompanied this cost increase.

Bituminous Prices continued to rise in the second quarter of 2008. Polymer shortages

will force prices even higher for projects to be let in the third quarter and constructed this construction season. The shortage is expected to be fairly short lived, subsiding some time this fall. Projects currently under construction may be impacted by these shortages.

The Minnesota Highway Construction Composite Cost Index for the second quarter of 2008 is 230.20, up 33.60 from the second quarter of 2007. The second quarter index was based on \$107.92 million of work considered from 32 projects. Second quarter, 2008 project information is compared to second quarter 2007 below.

#### **Indicator Costs**

|                        | Second (      | )uarter | 2007             | Second Quarter 2008 |          |                  |  |  |
|------------------------|---------------|---------|------------------|---------------------|----------|------------------|--|--|
| Item                   | Quantity      | Cost *  | <b>Unit Cost</b> | Quantity            | Cost *   | <b>Unit Cost</b> |  |  |
| Excavation             | 4,016,949 CY  | \$9.24  | \$2.30/CY        | 6,055,620 CY        | \$16.31  | \$2.69/CY        |  |  |
| Reinforcing Steel      | 5,123,223 lb  | \$4.98  | \$0.97/lb        | 3,898,430 lb        | \$4.89   | \$1.26/lb        |  |  |
| Structural Steel       | 1,679,370 lb  | \$2.23  | \$1.33/lb        | 3,811,530 lb        | \$7.24   | \$1.90/lb        |  |  |
| Structural Concrete    | 42,975 CY     | \$19.20 | \$446.72/CY      | 31,069 CY           | \$12.91  | \$415.39/CY      |  |  |
| Concrete Pavement      | 95,557 CY     | \$8.27  | \$86.50/CY       | 192,392 CY          | \$18.29  | \$95.07/CY       |  |  |
| Plant-Mixed Bituminous | 1,131,719 ton | \$43.81 | \$38.72ton       | 1,003,360 ton       | \$48.28  | \$48.12/ton      |  |  |
| Total                  |               | \$87.73 |                  |                     | \$107.92 |                  |  |  |

<sup>\*</sup> millions of dollars

#### **Minnesota Highway Construction Project Summary**

|                                      | 2007 Q2  | 2008 Q2  |
|--------------------------------------|----------|----------|
| Number of Projects Awarded           | 72       | 81       |
| Awarded Amount (\$ million)          | \$194.31 | \$248.92 |
| <b>Total Number of Bidders</b>       | 307      | 292      |
| Average Number of Bidders            | 4.3      | 3.60     |
| <b>Number of Cost Index Projects</b> | 30       | 32       |
| Cost Index Amount (\$ million)       | \$87.73  | \$107.92 |
|                                      |          |          |
| Excavation Index                     | 114.76   | 134.37   |
| Structures Index                     | 211.27   | 228.83   |
| Surfacing Index                      | 209.85   | 256.22   |
| Composite Cost Index (CI)            | 196.60   | 230.20   |

The average number of bidders per project was 3.60 for the second quarter of 2008. In comparison, the average number of second quarter bidders in 2007 and 2006 were 4.3 and 3.5 respectively.

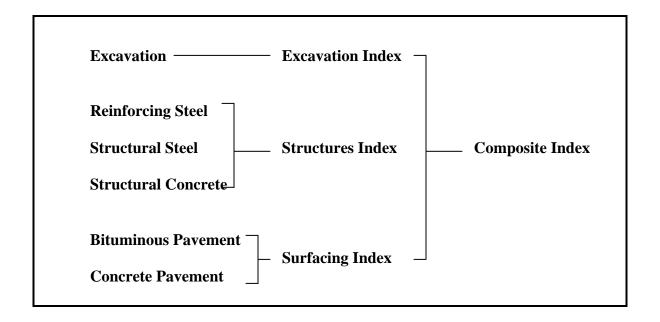
Attached is an explanation of the derivation of the Minnesota Cost index, charts of quarterly and annual Minnesota highway construction cost trends and a table and chart comparing the yearly Minnesota Composite Cost Index with the latest yearly FHWA Index.

cc: File

## **Minnesota Construction Cost Index**

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

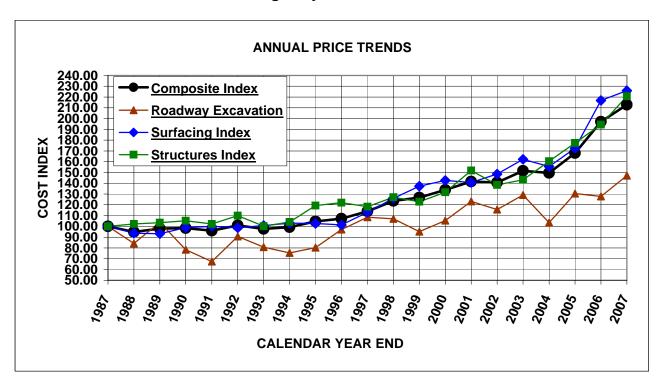
It is composed of six indicator items: roadway excavation, to indicate the price trends for all roadway excavation; concrete pavement and plant-mixed bituminous, to indicate the price trend for all surfacing types; and reinforcing steel, structural steel, and structural concrete, to indicate the price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

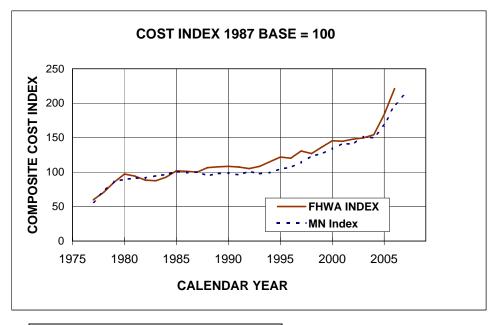
### **Minnesota Highway Construction Cost Trends**





#### **HIGHWAY CONSTRUCTION COST INDEX 1987 BASE-100**

| Year End | FHWA Index | MN Index |
|----------|------------|----------|
| 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     |            |          |
|          |            |          |



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

## PRICE TRENDS FOR FEDERAL-AID HIGHWAY CONSTRUCTION

1987 Base

|               |   | Comr<br>excava                            |                | Surfacing                                 |                |                                       |                | Structures                 |                                       |                |                                       |                                 |   |                |                     |                |
|---------------|---|---|----------------|---|----------------|---------------------------------------|----------------|----------------------------|---------------------------------------|----------------|---------------------------------------|---------------------------------|---|----------------|---------------------|----------------|
|               | Year                                    |   |                | Portland<br>conc                          |                | Bitumi<br>concr                       |                |                            | Reinforci                             | ng steel       | Structur                              | Structural steel Structural con |   | соцстеве       | Composite           |                |
|               |   | Average<br>contract<br>price<br>(cu. yd.) | Index          | Average<br>contract<br>price<br>(sq. yd.) | Index          | Average<br>contract<br>price<br>(ton) | Index          | Surfacing<br>index         | Average<br>contract<br>price<br>(lb.) | Index          | Average<br>contract<br>price<br>(lb.) | Index                           | Average<br>contract<br>price<br>(cu. yd.) | Index          | Structures<br>index | index          |
|               |   | 72  | 29.7           | 6.42                                      | 43.6           | 9.23                                  | 37.5           | 39.5                       | .181                                  | 41.1           | .342                                  | 38.6                            | 100.17                                    | 41.6           | 40.7                | 38.6           |
|               |   | .80<br>1.00                               | 33.0<br>41.2   | 7.00<br>8.88                              | 47.5<br>60.3   | 10.02<br>14.74                        | 40.7<br>59.8   | 42.9<br>60.0               | .207<br>.339                          | 47.0<br>76.9   | .372<br>.551                          | 42.0<br>62.3                    | 111.81<br>136.80                          | 46.4<br>56.8   | 45.4<br>61.7        | 42.5<br>57.9   |
|               |   | 1.03                                      | 42.5           | 8.88                                      | 60.3           | 15.13                                 | 61.4           | 61.0                       | .297                                  | 67.4           | .554                                  | 62.6                            | 138.76                                    | 57.6           | 60.6                | 58.1           |
|               |   | 1.03                                      | 42.5           | 8.92                                      | 60.6           | 14.83                                 | 60.2           | 60.3                       | 258                                   | 58.5           | .484                                  | 54.7                            | 139.59                                    | 58.0           | 57.2                | 56.3           |
|               |   | 1.16                                      | 47.8           | 9.95                                      | 67.5           | 15.47                                 | 62.8           | 64.3                       | .272                                  | 61.7           | .520                                  | 58.8                            | 143.51                                    | 59.6           | 59.7                | 59.8           |
|               | *************************************** | 1.54<br>1.62                              | 63.5<br>66.8   | 11.90<br>14.02                            | 80.8<br>95.2   | 17.16<br>21.21                        | 69.6<br>86.1   | 73.3<br>89.0               | .316<br>.421                          | 71.7<br>95.5   | .603<br>.759                          | 68.1<br>85.8                    | 172.41<br>211.33                          | 71.6<br>87.8   | 70.7<br>88.6        | 70.7<br>85.5   |
|               | *************************************** | 1.83                                      | 75.5           | 14.92                                     | 101.3          | 25.29                                 | 102.6          | 102.2                      | .483                                  | 109.6          | .941                                  | 106.3                           | 226.68                                    | 94.1           | 100.0               | 97.2           |
|               |   | 1.76                                      | 72.6           | 14.17                                     | 96.2           | 25.63                                 | 104.0          | 101.4                      | .438                                  | 99.4           | .790                                  | 89.3                            | 231.64                                    | 96.2           | 94.9                | 94.2           |
|               | *************************************** | 1.59<br>1.74                              | 65.6<br>71.8   | 13.03<br>12.69                            | 88.5<br>86.1   | 24.33<br>24.27                        | 98.7<br>98.5   | 95.3<br>94.4               | .407<br>.398                          | 92.4<br>90.3   | .762<br>.708                          | 86.1                            | 219.63                                    | 91.2           | 90.0                | 88.5           |
|               | (************************************** | 1.90                                      | 78.4           | 13.64                                     | 92.6           | 26.52                                 | 107.6          | 102.7                      | .409                                  | 92.8           | .708                                  | 80.0<br>80.1                    | 213.85<br>218.02                          | 88.8<br>90.5   | 86.7<br>88.2        | 87.6<br>92.6   |
| 1985          | /*************************************  | 2.24                                      | 92.4           | 14.31                                     | 97.1           | 28.52                                 | 115.7          | 109.6                      | .444                                  |                | .796                                  | 89.9                            | 243.60                                    | 101.2          | 98.1                | 102.0          |
|               | *************************************** | 2.28                                      | 94.0           | 15.63                                     | 106.1          | 26.48                                 | 107.4          | 107.0                      | . 442                                 | 100.3          | .850                                  | 96.0                            | 236.37                                    | 98.2           | 98.0                | 101.1          |
|               |   | 2.42<br>2.72                              | 100.0<br>112.2 | 14.80<br>14.33                            | 100.0<br>97.3  | 24.65<br>24.91                        | 100.0<br>101.1 | 100.0 <sub>.</sub><br>99.8 | .441<br>.494                          | 100.0<br>112.1 | .885                                  | 100.0                           | 240.81                                    | 100.0          | 100.0               | 100.0          |
|               |   | 2.40                                      | 99.0           | 15.17                                     | 103.0          | 24.91                                 | 97.7           | 99.8                       | .556                                  | 126.2          | .924<br>1.018                         | 104.4<br>115.0                  | 274.12<br>283.40                          | 113.8<br>117.7 | 111.0<br>118.4      | 106.6<br>107.7 |
|               |   | 2.38                                      | 98.1           | 15.91                                     | 108.0          | 24.52                                 | 99.5           | 102.3                      | .529                                  | 120.0          | 1.010                                 | 114.1                           | 286.18                                    | 118.8          | 117.8               | 108.5          |
|               |   | 2.32                                      | 95.5           | 16.58                                     | 112.5          | 25,52                                 | 103.6          | 106.5                      | .505                                  | 114.6          | 1.030                                 | 116.4                           | 264.98                                    | 110.0          | 112.5               | 107.5          |
|               | *************************************** | 2.20<br>2.50                              | 90.8<br>103.2  | 17.80<br>18.81                            | 120.8<br>127.7 | 24.66<br>26.26                        | 100.1<br>106.6 | 106.9<br>113.5             | .520<br>.467                          | 117.9<br>106.0 | .916.<br>.861                         | 103.5<br>97.3                   | 259.61<br>261.89                          | 107.8<br>108.7 | 108.4<br>105.3      | 105.1<br>108.3 |
|               | *************************************** | 2.75                                      | 113.2          | 20.88                                     | 141.7          | 27.80                                 | 112.8          | 122.3                      | .515                                  | 116.8          | .847                                  | 95.7                            | 271.94                                    | 112.9          | 109.0               | 115.1          |
| 1995          |   | 2.73                                      | 112.8          | 22.07                                     | 149.8          | 28.87                                 | 117.1          | 127.9                      | .542                                  | 122.9          | .922                                  | 104.2                           | 302.66                                    | 125.7          | 119.5               | 121.9          |
|               |   | 2.92<br>2.85                              | 120.6<br>117.6 | 19.64<br>23.75                            | 133.3<br>161.2 | 27.50<br>23.39                        | 111.6<br>119.2 | 118.7<br>133.0             | .581<br>.567                          | 121.5<br>128.7 | 1.068<br>1.186                        | 120.7<br>134.0                  | 293.85<br>320.90                          | 122.0<br>133.2 | 121.6<br>132.7      | 120.2<br>130.6 |
|               | *************************************** | 3.01                                      | 124.3          | 23.65                                     | 160.5          | 25.00                                 | 101.4          | 120.8                      | .544                                  | 123.4          | 1.111                                 | 125.5                           | 337.25                                    | 140.0          | 133.4               | 126.9          |
| 1999          |   | 2.93                                      | 120.9          | 23.49                                     | 159.5          | 32.28                                 | 130.9          | 140.3                      | .554                                  | 125.7          | 1.224                                 | 138.3                           | 342.24                                    | 142.1          | 138.3               | 136.5          |
| 2000          | ************                            | 3.01                                      | 124.1          | 25.30                                     | 171.7          | 35.15                                 | 142.6          | 152.2                      | .549                                  | 124.6          | 1.351                                 | 152.6                           | 363.66                                    | 151.0          | 146.9               | 145.6          |
|               |   | 3.05                                      | 125.9          | 28.21                                     | 191.5          | 34.93                                 | 141.7          | 158.1                      | .601                                  | 136.4          | 1.201                                 | 135.8                           | 339.44                                    | 140.9          | 138.8               | 144.8          |
|               |   | 2.94<br>3.45                              | 121.2<br>142.3 | 25.86<br>23.95                            | 175.5<br>162.6 | 34.14<br>32.54                        | 138.5<br>132.0 | 150.7<br>142.1             | .610<br>.718                          | 138.4<br>162.9 | 1.436<br>1.219                        | 162,2<br>137.8                  | 374.96<br>406.02                          | 155.7<br>158.5 | 154.5<br>159.5      | 147.9<br>149.8 |
| 2004;         | ,                                       |   |                |   | V              |                                       |                |                            |                                       |                | *****                                 |                                 |   |                | •                   |                |
| Firs          | t quarter                               | 2.97                                      |                | 25.78                                     | 174.9          | 33.61                                 |                | 149.0                      | .677                                  |                | 1.140                                 | 128.8                           | 370.83                                    |                | 147.2               | 144.3          |
| Sec.          | ond quarter<br>rd quarter               | 3.32<br>3.33                              | 136.9<br>137.5 | 30.60<br>23.39                            | 207.7<br>158.8 | 35.54                                 | 144.2<br>154.7 | 165.0<br>156.1             | .786<br>.828                          |                | 2.455<br>1.135                        | 277.4<br>128.2                  | 402,69<br>253,35                          | 167.2<br>105.2 | 198.2<br>125.4      | 175.4<br>139.8 |
| Fou           | orth quarter                            | 3.58                                      | 147.6          | 29.69                                     | 201.6          | 40.60                                 | 164.7          | 176.8                      | .941                                  | 213.4          | 1.419                                 | 160.4                           | 365.14                                    | 151.6          | 164.5               | 166.9          |
|               | Annual                                  | 3.29                                      | 135.7          | 26.97                                     | 183.1          | 36.97                                 | 149.9          | 160.8                      | .815                                  | 184.8          | 1.521                                 | 171.9                           | 331.49                                    | 137.6          | 154.7               | 154.4          |
| 2005:<br>Firs | t quarter                               | 3.59                                      | 147.9          | 31.49                                     | 213.8          | 39.77                                 | 161.3          | 178.6                      | 1.057                                 | 239.8          | 1.492                                 | 168.6                           | 222.72                                    | 92.5           | 137.8               | 155.9          |
| Sec           | ond quarter                             | 4.26                                      | 175.8          | 42.67                                     | 289.6          | 43.40                                 | 176.1          | 213.4                      | 1.000                                 |                | 1.645                                 | 185.9                           | 549.70                                    | 228.3          | 216.8               | 209.2          |
| Thi           | rd quarter                              | 4.99                                      | 205.9          | 31.58                                     | 214.4          | 54.09                                 | 219.4          | 217.8                      | .862                                  | 195.6          | 1.717                                 | 193.9                           | 507.98                                    | 210.9          | 203.8               | 209.9          |
| Fou<br>A      | rth quarter                             | 3.69<br>3.99                              | 152.3<br>164.6 | 34.25<br>33.42                            | 232.5<br>226.8 | 54.36<br>45.56                        | 220.5<br>184.9 | 224.5<br>198.6             | .827<br>.941                          | 187.6<br>213.6 | 1.485<br>1.571                        | 167.8<br>177.5                  | 512.35<br>394.88                          | 212.7<br>163.9 | 196.6<br>176.0      | 201.3<br>183.6 |
| 2006:         | *                                       | <u> </u>                                  |                | <del></del>                               |                |                                       |                |                            | <del></del>                           |                | -                                     |                                 |   | *              |                     |                |
| Firs          | t quarter                               | 4.13                                      | 170.4          | 34.28                                     | 232.7          | 45.99                                 | 186.6          | 201.7                      | .795                                  | 180.4          | 1.520                                 | 171.8                           | 397.21                                    | 164.9          | 169.4               | 182.8          |
| Seco<br>This  | ond quarter<br>rd quarter               | 3.56<br>5.31                              | 146.9<br>218.9 | 44.04<br>29.60                            | 298.9<br>200.9 | 59.03<br>57.20                        | 239.5<br>232.1 | 259.0<br>221.8             | .874<br>.928                          | 198.2<br>210.6 | 1.701<br>1.985                        | 192.1<br>224.2                  | 728.51<br>416.93                          | 302.5<br>173.1 | 255.5<br>193.0      | 240.6<br>208.7 |
| Fou           | rth quarter                             | 6.43                                      | 265.4          | 35.56                                     | 241.4          | 59.59                                 | 241.8          | 241.6                      | .961                                  | 218.0          | 1.710                                 | 193.3                           | 628.72                                    | 261.1          | 235.8               | 242.6          |
|               | mnual                                   | 4.51                                      | 186.1          | 37.94                                     | 257.5          | 55.25                                 | 224.2          | 235.1                      | .872                                  | 197.9          | 1.736                                 | 196.1                           | 574.80                                    | 238.7          | 220.5               | 221.3          |

#### MN/DOT COST INDEX

| Year                       | Roadway<br>Excavation | Bituminous<br>Surfacing | Concrete<br>Surfacing | Surfacing<br>Index | Reinforce.<br>Steel | Structural<br>Steel | Structural<br>Concrete | Structures<br>Index | Composite<br>Index |
|----------------------------|-----------------------|-------------------------|-----------------------|--------------------|---------------------|---------------------|------------------------|---------------------|--------------------|
| 1987                       | 100.00                | 100.00                  | 100.00                | 100.00             | 100.00              | 100.00              | 100.00                 | 100.00              | 100.00             |
| 1988                       | 66.35                 | 92.87                   | 76.99                 | 89.60              | 108.25              | 113.11              | 91.18                  | 98.44               | 88.98              |
| 1st Quarter<br>2nd Quarter | 111.84                | 92.87<br>96.02          | 107.04                | 98.29              | 106.25              | 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                  | 104.70                | 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             |
| 137.56                     | 70.45                 | 90.06                   | 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              |
| <u>1990</u>                |                       |                         |                       |                    |                     |                     |                        |                     |                    |
| 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<br>4th Quarter | 97.07<br>66.99        | 122.17<br>106.72        | 102.13<br>148.85      | 118.04<br>115.41   | 117.17<br>118.55    | 112.70<br>108.99    | 92.03<br>133.76        | 100.67<br>126.38    | 109.65<br>111.83   |
| Year End                   | 78.30                 | 100.72                  | 97.24                 | 98.89              | 117.48              | 112.81              | 99.09                  | 105.17              | 98.41              |
| 1991                       | 70.50                 | 100.50                  | 37.24                 | 90.09              | 117.40              | 112.01              | 99.09                  | 105.17              | 30.41              |
| 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              |
| <u>1992</u>                |                       |                         |                       |                    |                     |                     |                        |                     |                    |
| 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                  | 07.07                 | 105.41             | 105.69              | 91.58               | 116.35                 | 109.83              | 106.01             |
| Year End<br><b>1993</b>    | 90.60                 | 99.05                   | 97.07                 | 98.64              | 106.37              | 105.54              | 112.38                 | 109.98              | 100.98             |
| 1993<br>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                | 01.01                 | 117.01                  | 101.75                | 117.01             | 97.06               | 120.70              | 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              |
| <u>1994</u>                |                       |                         |                       |                    |                     |                     |                        |                     |                    |
| 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                       | 05.60                 | 05.50                   | 115 71                | 00.70              | 100.70              | 100.07              | 111.00                 | 117.00              | 102.10             |
| 1st Quarter<br>2nd Quarter | 85.69<br>71.02        | 95.53<br>99.49          | 115.74                | 99.70<br>99.49     | 120.72<br>121.32    | 122.37<br>132.48    | 114.68<br>117.95       | 117.23<br>121.17    | 103.10<br>102.42   |
| 3rd Quarter                | 77.42                 | 113.46                  | 111.29                | 113.02             | 151.42              | 132.40              | 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             |
| <u>1996</u>                |                       |                         |                       |                    |                     |                     |                        |                     |                    |
| 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                       | 447 44                | 407.57                  | 440.00                | 400.00             | 447.44              | 00.00               | 405.00                 | 440.00              | 440.00             |
| 1st Quarter                | 117.41                | 107.57                  | 112.89                | 108.66             | 117.44              | 93.82               | 125.60                 | 118.39              | 112.93             |
| 2nd Quarter<br>3rd Quarter | 96.00<br>122.35       | 107.53<br>130.99        | 153.26                | 116.96<br>130.99   | 129.60<br>124.92    | 107.48<br>119.62    | 117.89<br>116.28       | 118.40<br>118.59    | 114.38<br>125.27   |
| 4th Quarter                | 127.75                | 134.59                  | 0.00                  | 134.59             | 124.32              | 119.02              | 110.20                 | 110.59              | 132.88             |
| Year End                   | 108.51                | 109.84                  | 125.63                | 113.10             | 122.08              | 99.44               | 122.32                 | 118.25              | 114.03             |
| 1998                       |                       |                         | .20.00                |                    |                     | 33                  |                        |                     |                    |
| 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             |

# MN/DOT COST INDEX (CONTINUED)

| <u>Year</u>                | Roadway<br>Excavation | Bituminous<br>Surfacing | Concrete<br>Surfacing | Surfacing<br>Index | Reinforce.<br>Steel | Structural<br>Steel | Structural<br>Concrete | Structures<br>Index | Composite<br>Index |
|----------------------------|-----------------------|-------------------------|-----------------------|--------------------|---------------------|---------------------|------------------------|---------------------|--------------------|
| <u>1999</u>                | 00.50                 | 400.05                  | 040.00                | 4.47.04            | 400.04              |                     | 400.00                 | 100.11              | 400.54             |
| 1st Quarter                | 90.59                 | 130.95                  | 210.30                | 147.31             | 133.64              |                     | 126.39                 | 128.14              | 133.51             |
| 2nd Quarter<br>3rd Quarter | 92.34                 | 137.50                  | 139.09                | 137.83             | 121.34              | 100.07              | 121.92                 | 121.78              | 126.58             |
|                            | 85.22                 | 135.66                  | 202.56                | 135.66             | 125.58              | 168.87<br>107.12    | 121.78                 | 130.81              | 125.78<br>160.66   |
| 4th Quarter<br>Year End    | 182.25<br>95.07       | 143.08                  | 142.46                | 155.34             | 132.10              | 114.64              | 183.75                 | 160.00              | 126.75             |
| 2000                       | 95.07                 | 135.87                  | 142.40                | 137.23             | 124.73              | 114.04              | 124.72                 | 122.95              | 120.75             |
|                            | 06.25                 | 141 20                  | 152.00                | 1/2 72             | 140.06              | 151.06              | 105.61                 | 122 57              | 133.77             |
| 1st Quarter                | 96.35                 | 141.29                  | 153.08                | 143.73             | 142.36              | 151.96              | 125.61                 | 133.57              |                    |
| 2nd Quarter                | 111.93                | 138.88                  | 158.17                | 142.86             | 137.49              | 136.03              | 120.21                 | 126.43              | 133.33             |
| 3rd Quarter<br>4th Quarter | 102.18                | 128.03                  | 170.73                | 128.03             | 137.29              |                     | 140.48                 | 139.71              | 127.13             |
| Year End                   | 115.61<br>105.38      | 136.47                  | 157.19                | 143.53<br>142.65   | 149.27              | 127.50              | 185.41                 | 176.66              | 148.21<br>133.91   |
| 2001                       | 105.36                | 138.87                  | 137.19                | 142.00             | 139.49              | 137.59              | 127.59                 | 131.71              | 133.91             |
| 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                       | 123.17                | 137.23                  | 133.92                | 140.03             | 142.33              | 171.70              | 143.23                 | 131.03              | 141.01             |
| 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                | 140.40                | 132.77                  | 140.07                | 132.77             | 130.31              | 100.20              | 00.00                  | 112.13              | 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                       | 113.04                | 150.27                  | 142.10                | 140.00             | 100.74              | 137.32              | 120.43                 | 130.49              | 140.73             |
| 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              | 103.23              | 161.37                 | 162.50              | 160.21             |
|                            |                       |                         | 190.90                |                    |                     | 400.50              |                        |                     |                    |
| 4th Quarter                | 142.18                | 144.11                  | 450.47                | 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             |
| <u>2004</u>                |                       |                         |                       |                    |                     |                     |                        |                     |                    |
| 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             |
| <u>2005</u>                |                       | 450.05                  | 224.22                | 4=0.40             |                     | 004.0=              | 4=0.00                 | 22121               | 400 ==             |
| 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                  | 400.55                | 211.41             | 219.49              | 004.40              | 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                       | 470.04                | 040.07                  | 400.40                | 000.40             | 000.47              | 407.00              | 400.00                 | 40440               | 400.00             |
| 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                       | 100 17                | OFF 64                  | 222.40                | 240.70             | 226.04              | 202.00              | 202.24                 | 222.24              | 222.47             |
| 1st Quarter                | 190.17                | 255.61                  | 222.49                | 248.78             | 236.81              | 283.08              | 202.21                 | 223.31              | 232.47             |
| 2nd Quarter                | 114.76<br>* /**       | 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                       | 142 42                | 225.22                  | 261.00                | 261.24             | 400.40              | *                   | 100.70                 | **                  | **                 |
| 1st Quarter                | 143.43                | 235.23                  | 361.90<br>170.51      | 261.34             | 409.19              |                     | 189.70                 | 228.83              |                    |
| 2nd Quarter                | 134.37                | 278.48                  | 170.51                | 256.22             | 286.47              | 267.39              | 199.61                 | 220.03              | 230.20             |

<sup>\*</sup> No information available \*\*Not computed due to the absence of data for indicator item(s).