

# Time Weighted/Integrated Real Time LBMP - Zonal

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

11/11/2002

| Name<br>PTID    | 00:00<br>EST            | 01:00<br>EST            | 02:00<br>EST           | 03:00<br>EST           | 04:00<br>EST           | 05:00<br>EST           | 06:00<br>EST           | 07:00<br>EST            | 08:00<br>EST           | 09:00<br>EST           | 10:00<br>EST            | 11:00<br>EST             | 12:00<br>EST            | 13:00<br>EST            | 14:00<br>EST            | 15:00<br>EST            | 16:00<br>EST              | 17:00<br>EST             | 18:00<br>EST             | 19:00<br>EST            | 20:00<br>EST            | 21:00<br>EST            | 22:00<br>EST            | 23:00<br>EST           |
|-----------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| CAPITL<br>61757 | 19.47<br>1.43<br>0.00   | 14.57<br>1.07<br>0.00   | 20.81<br>1.40<br>0.00  | 24.76<br>1.61<br>0.00  | 14.17<br>0.84<br>0.00  | 47.75<br>3.11<br>0.00  | 46.88<br>3.26<br>0.00  | 72.50<br>5.32<br>0.00   | 66.16<br>5.39<br>0.00  | 96.53<br>8.11<br>0.00  | 137.16<br>10.48<br>0.00 | 136.98<br>10.39<br>-5.95 | 82.66<br>1.70<br>-58.36 | 55.33<br>2.63<br>-12.55 | 53.51<br>2.52<br>-16.41 | 58.38<br>1.87<br>-32.05 | 136.78<br>0.15<br>-134.68 | 47.93<br>2.49<br>-6.62   | 46.92<br>2.72<br>0.00    | 50.55<br>3.22<br>0.00   | 50.61<br>3.07<br>-2.58  | 37.28<br>2.47<br>-0.16  | 29.99<br>1.99<br>0.00   | 32.00<br>2.19<br>0.00  |
| CENTRL<br>61754 | 17.51<br>-0.53<br>0.00  | 13.21<br>-0.29<br>0.00  | 18.94<br>-0.46<br>0.00 | 22.51<br>-0.64<br>0.00 | 13.01<br>-0.32<br>0.00 | 43.62<br>-1.01<br>0.00 | 42.45<br>-1.17<br>0.00 | 65.35<br>-1.84<br>0.00  | 59.16<br>-1.61<br>0.00 | 86.20<br>-2.22<br>0.00 | 123.63<br>-3.05<br>0.00 | 118.43<br>-2.81<br>-0.59 | 27.87<br>-0.52<br>-5.79 | 40.48<br>-0.92<br>-1.24 | 35.37<br>-0.84<br>-1.63 | 27.01<br>-0.63<br>-3.17 | 15.24<br>-0.04<br>-13.33  | 38.72<br>-0.76<br>-0.66  | 43.38<br>-0.83<br>0.00   | 46.34<br>-0.99<br>0.00  | 44.20<br>-1.01<br>-0.26 | 33.82<br>-0.84<br>-0.02 | 27.28<br>-0.72<br>0.00  | 29.04<br>-0.77<br>0.00 |
| DUNWOD<br>61760 | 19.08<br>1.04<br>0.00   | 14.19<br>0.69<br>0.00   | 20.37<br>0.97<br>0.00  | 24.33<br>1.18<br>0.00  | 14.02<br>0.69<br>0.00  | 46.47<br>1.84<br>0.00  | 45.36<br>1.74<br>0.00  | 70.43<br>3.25<br>0.00   | 63.91<br>3.13<br>0.00  | 93.29<br>4.86<br>0.00  | 134.54<br>7.86<br>0.00  | 133.05<br>7.72<br>-4.68  | 70.15<br>1.63<br>-45.91 | 53.20<br>3.17<br>-9.87  | 50.11<br>2.62<br>-12.91 | 51.48<br>1.85<br>-25.16 | 107.82<br>0.14<br>-105.73 | 136.88<br>2.83<br>-95.23 | 102.18<br>2.85<br>-55.12 | 59.36<br>2.98<br>-9.06  | 50.43<br>2.80<br>-2.68  | 55.60<br>1.96<br>-19.00 | 48.11<br>1.42<br>-18.69 | 31.00<br>1.19<br>0.00  |
| GENESE<br>61753 | 17.84<br>-0.19<br>0.00  | 13.38<br>-0.12<br>0.00  | 19.11<br>-0.29<br>0.00 | 22.72<br>-0.43<br>0.00 | 13.15<br>-0.19<br>0.00 | 44.38<br>-0.25<br>0.00 | 43.79<br>0.17<br>0.00  | 67.50<br>0.31<br>0.00   | 61.04<br>0.27<br>0.00  | 88.97<br>0.55<br>0.00  | 127.04<br>0.36<br>0.00  | 121.38<br>0.15<br>-0.59  | 28.28<br>-0.09<br>-5.76 | 41.21<br>-0.18<br>-1.24 | 36.21<br>0.00<br>-1.62  | 27.60<br>0.02<br>-3.12  | 15.07<br>0.01<br>-13.11   | 39.63<br>0.15<br>-0.65   | 44.58<br>0.38<br>0.00    | 47.69<br>0.37<br>0.00   | 45.50<br>0.29<br>-0.26  | 34.99<br>0.33<br>-0.02  | 28.19<br>0.18<br>0.00   | 30.14<br>0.32<br>0.00  |
| H Q<br>61844    | 17.93<br>-0.11<br>0.00  | 13.39<br>-0.11<br>0.00  | 19.23<br>-0.17<br>0.00 | 22.94<br>-0.21<br>0.00 | 13.23<br>-0.10<br>0.00 | 44.36<br>-0.27<br>0.00 | 43.50<br>-0.11<br>0.00 | 66.94<br>-0.25<br>0.00  | 60.33<br>-0.44<br>0.00 | 87.67<br>-0.75<br>0.00 | 125.29<br>-1.39<br>0.00 | 119.23<br>-1.40<br>0.01  | 22.15<br>-0.32<br>0.14  | 39.57<br>-0.55<br>0.03  | 34.07<br>-0.47<br>0.04  | 24.10<br>-0.30<br>0.06  | 1.69<br>-0.02<br>0.24     | 38.30<br>-0.50<br>0.02   | 43.65<br>-0.56<br>0.00   | 46.74<br>-0.59<br>0.00  | 44.44<br>-0.51<br>0.01  | 34.43<br>-0.22<br>0.00  | 27.84<br>-0.17<br>0.00  | 29.71<br>-0.10<br>0.00 |
| HUD VL<br>61758 | 18.59<br>0.55<br>0.00   | 13.85<br>0.35<br>0.00   | 19.92<br>0.52<br>0.00  | 23.80<br>0.65<br>0.00  | 13.71<br>0.38<br>0.00  | 45.50<br>0.86<br>0.00  | 44.38<br>0.76<br>0.00  | 68.70<br>1.51<br>0.00   | 62.33<br>1.56<br>0.00  | 90.81<br>2.38<br>0.00  | 130.84<br>4.16<br>0.00  | 129.33<br>4.11<br>-4.58  | 68.45<br>0.91<br>-44.93 | 51.63<br>1.82<br>-9.66  | 48.72<br>1.50<br>-12.63 | 50.18<br>1.04<br>-24.67 | 105.69<br>0.08<br>-103.67 | 45.57<br>1.65<br>-5.10   | 45.81<br>1.60<br>0.00    | 48.90<br>1.57<br>0.00   | 48.36<br>1.42<br>-1.99  | 35.64<br>0.87<br>-0.12  | 28.53<br>0.52<br>0.00   | 30.13<br>0.32<br>0.00  |
| LONGIL<br>61762 | 19.35<br>1.31<br>0.00   | 14.41<br>0.91<br>0.00   | 20.67<br>1.27<br>0.00  | 24.70<br>1.55<br>0.00  | 14.25<br>0.92<br>0.00  | 46.27<br>1.64<br>0.00  | 44.64<br>1.03<br>0.00  | 70.00<br>2.81<br>0.00   | 63.60<br>2.83<br>0.00  | 92.84<br>4.42<br>0.00  | 134.04<br>7.36<br>0.00  | 132.86<br>7.53<br>-4.69  | 70.28<br>1.69<br>-45.98 | 53.56<br>3.52<br>-9.88  | 50.45<br>2.94<br>-12.93 | 51.72<br>2.06<br>-25.19 | 107.93<br>0.15<br>-105.84 | 137.17<br>3.11<br>-95.24 | 105.15<br>3.23<br>-57.72 | 64.07<br>3.35<br>-13.39 | 73.22<br>3.25<br>-25.01 | 56.90<br>2.39<br>-19.86 | 48.28<br>1.58<br>-18.69 | 31.06<br>1.25<br>0.00  |
| MHK VL<br>61756 | 18.43<br>0.40<br>0.00   | 13.79<br>0.29<br>0.00   | 19.82<br>0.41<br>0.00  | 23.62<br>0.47<br>0.00  | 13.60<br>0.27<br>0.00  | 45.52<br>0.88<br>0.00  | 44.48<br>0.87<br>0.00  | 68.44<br>1.25<br>0.00   | 61.92<br>1.14<br>0.00  | 90.25<br>1.82<br>0.00  | 128.90<br>2.22<br>0.00  | 123.00<br>2.17<br>-0.18  | 24.78<br>0.37<br>-1.81  | 41.07<br>0.53<br>-0.39  | 35.61<br>0.52<br>-0.51  | 25.85<br>0.40<br>-0.98  | 6.08<br>0.03<br>-4.10     | 39.45<br>0.42<br>-0.20   | 44.78<br>0.58<br>0.00    | 48.01<br>0.68<br>0.00   | 45.69<br>0.65<br>-0.08  | 35.20<br>0.55<br>0.00   | 28.45<br>0.45<br>0.00   | 30.33<br>0.52<br>0.00  |
| MILLWD<br>61759 | 18.87<br>0.83<br>0.00   | 14.07<br>0.57<br>0.00   | 20.18<br>0.77<br>0.00  | 24.08<br>0.93<br>0.00  | 13.87<br>0.54<br>0.00  | 46.01<br>1.37<br>0.00  | 44.90<br>1.29<br>0.00  | 69.69<br>2.50<br>0.00   | 63.20<br>2.43<br>0.00  | 92.21<br>3.78<br>0.00  | 132.96<br>6.28<br>0.00  | 131.49<br>6.20<br>-4.65  | 69.57<br>1.34<br>-45.63 | 52.60<br>2.64<br>-9.81  | 49.58<br>2.16<br>-12.83 | 51.02<br>1.52<br>-25.04 | 107.30<br>0.11<br>-105.24 | 136.33<br>2.30<br>-95.20 | 101.61<br>2.29<br>-55.12 | 58.75<br>2.36<br>-9.06  | 49.84<br>2.22<br>-2.67  | 55.16<br>1.51<br>-19.00 | 47.77<br>1.07<br>-18.69 | 30.65<br>0.83<br>0.00  |
| N.Y.C.<br>61761 | 33.68<br>1.35<br>-14.29 | 30.32<br>0.91<br>-15.90 | 29.07<br>1.26<br>-8.40 | 26.96<br>1.52<br>-2.29 | 16.99<br>0.90<br>-2.76 | 47.17<br>2.54<br>0.00  | 46.08<br>2.46<br>0.00  | 86.57<br>4.41<br>-14.98 | 65.43<br>4.14<br>-0.51 | 94.85<br>6.42<br>0.00  | 136.62<br>9.94<br>0.00  | 146.86<br>9.68<br>-16.54 | 70.55<br>1.98<br>-45.97 | 59.56<br>3.76<br>-15.64 | 52.15<br>3.07<br>-14.49 | 53.19<br>2.19<br>-26.53 | 108.95<br>0.15<br>-106.85 | 137.28<br>3.22<br>-95.24 | 102.57<br>3.24<br>-55.12 | 70.22<br>3.58<br>-19.31 | 51.65<br>3.45<br>-3.24  | 56.34<br>2.50<br>-19.19 | 67.76<br>1.94<br>-37.82 | 34.68<br>1.79<br>-3.07 |
| NORTH<br>61755  | 18.06<br>0.02<br>0.00   | 13.47<br>-0.03<br>0.00  | 19.35<br>-0.05<br>0.00 | 23.07<br>-0.09<br>0.00 | 13.30<br>-0.03<br>0.00 | 44.61<br>-0.03<br>0.00 | 43.73<br>0.12<br>0.00  | 67.29<br>0.11<br>0.00   | 60.67<br>-0.10<br>0.00 | 88.20<br>-0.23<br>0.00 | 125.84<br>-0.84<br>0.00 | 119.79<br>-0.84<br>0.02  | 22.19<br>-0.24<br>0.18  | 39.65<br>-0.46<br>0.04  | 34.16<br>-0.37<br>0.05  | 24.18<br>-0.21<br>0.07  | 1.63<br>-0.02<br>0.30     | 38.37<br>-0.43<br>0.02   | 43.74<br>-0.47<br>0.00   | 46.86<br>-0.47<br>0.00  | 44.55<br>-0.40<br>0.01  | 34.56<br>-0.09<br>0.00  | 27.96<br>-0.05<br>0.00  | 29.91<br>0.10<br>0.00  |
| NPX<br>61845    | 19.14<br>1.11<br>0.00   | 14.30<br>0.80<br>0.00   | 20.53<br>1.13<br>0.00  | 24.46<br>1.31<br>0.00  | 14.04<br>0.71<br>0.00  | 47.01<br>2.38<br>0.00  | 45.98<br>2.37<br>0.00  | 71.06<br>3.87<br>0.00   | 64.58<br>3.81<br>0.00  | 94.10<br>5.68<br>0.00  | 134.27<br>7.59<br>0.00  | 133.47<br>7.31<br>-5.52  | 77.97<br>1.24<br>-54.12 | 53.77<br>1.98<br>-11.64 | 51.69<br>1.89<br>-15.22 | 55.59<br>1.42<br>-29.71 | 126.91<br>0.11<br>-124.85 | 46.87<br>1.91<br>-6.14   | 46.26<br>2.06<br>0.00    | 49.74<br>2.42<br>0.00   | 49.70<br>2.35<br>-2.39  | 36.60<br>1.81<br>-0.14  | 29.44<br>1.43<br>0.00   | 31.32<br>1.51<br>0.00  |

|               |       |       |       |       |       |       |       |        |        |        |        |        |       |       |       |       |        |       |       |        |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|
| OH<br>61846   | 14.30 | 10.77 | 15.44 | 18.47 | 10.71 | 35.55 | 34.65 | 52.77  | 47.06  | 68.18  | 98.38  | 94.10  | 25.14 | 33.20 | 29.10 | 23.11 | 18.72  | 31.42 | 34.93 | 37.09  | 35.53 | 27.08 | 21.94 | 23.43 |
|               | -3.74 | -2.74 | -3.97 | -4.68 | -2.62 | -9.09 | -8.97 | -14.42 | -13.71 | -20.25 | -28.30 | -27.30 | -4.92 | -8.56 | -7.58 | -5.44 | -0.42  | -8.25 | -9.28 | -10.23 | -9.76 | -7.59 | -6.06 | -6.38 |
|               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | -0.76  | -7.45 | -1.60 | -2.10 | -4.09 | -17.19 | -0.85 | 0.00  | 0.00   | -0.33 | -0.02 | 0.00  | 0.00  |
| PJM<br>61847  | 16.27 | 11.88 | 10.00 | 6.00  | 11.00 | 18.01 | 24.00 | 35.00  | 35.00  | 79.92  | 35.00  | 35.00  | 30.50 | 39.06 | 34.43 | 40.00 | 35.92  | 40.00 | 40.01 | 35.00  | 35.01 | 15.00 | 35.00 | 45.01 |
|               | -1.77 | -2.02 | -3.88 | -3.31 | -3.01 | -5.60 | -7.94 | -6.06  | -7.25  | -8.51  | -6.59  | -6.05  | -1.88 | -3.19 | -2.91 | -8.09 | -6.82  | -8.19 | -3.53 | -8.20  | -3.74 | -7.93 | -4.93 | -6.66 |
|               | 0.00  | 2.22  | 9.90  | 10.88 | 7.06  | 12.32 | 22.84 | 5.22   | 7.75   | 0.00   | 13.80  | 11.58  | -9.77 | -2.10 | -2.75 | 7.35  | 9.72   | 9.87  | 9.20  | 12.18  | 13.99 | 31.76 | 11.47 | 2.95  |
| WEST<br>61752 | 16.67 | 12.57 | 18.08 | 21.62 | 12.56 | 41.69 | 40.48 | 61.58  | 54.91  | 79.54  | 114.81 | 109.68 | 27.87 | 38.48 | 33.55 | 26.15 | 18.43  | 36.63 | 41.00 | 43.49  | 41.54 | 31.69 | 25.66 | 27.40 |
|               | -1.37 | -0.93 | -1.32 | -1.53 | -0.77 | -2.94 | -3.14 | -5.61  | -5.86  | -8.88  | -11.87 | -11.70 | -1.96 | -3.23 | -3.07 | -2.28 | -0.16  | -3.01 | -3.21 | -3.84  | -3.74 | -2.98 | -2.35 | -2.42 |
|               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | -0.74  | -7.22 | -1.55 | -2.03 | -3.96 | -16.64 | -0.82 | 0.00  | 0.00   | -0.32 | -0.02 | 0.00  | 0.00  |