

**Leander, Texas Independent School District
Eco System - Evaluation 2009**

MPG

| Bus# | Feb-09 | Mar-09 | Apr-09 | May-09 | % of Fuel Savings | Fuel Used |
|-------------|---------------|---------------|---------------|---------------|--------------------------|------------------|
| 43 | 7.5 | 8.7 | 8.5 | 8.5 | 13% | 1619.3 |
| 213 | 7.0 | 8.0 | 8.0 | 8.2 | 17% | 1077.0 |
| 224 | 6.6 | 6.4 | 7.4 | 7.6 | 15% | 882.5 |
| 229 | 6.4 | 8.3 | 8.3 | 8.5 | 33% | 803.6 |
| 252 | 6.6 | 6.9 | 7.2 | 7.0 | 5% | 1205.3 |
| 263 | 4.1 | 5.8 | 6.0 | 5.9 | 45% | 593.2 |
| 275 | 4.5 | 6.5 | 6.5 | 6.4 | 43% | 605.5 |
| 287 | 5.6 | 7.7 | 7.5 | 7.9 | 40% | 1045.6 |



Fuel Eco Systems
(512) 506-1946
www.fuelecosystems.com

Average Fuel Savings for 8 buses 26% Total 7,832
Average Fuel Used per bus, per week. 61.2 Gallons

Fuel Savings

For 8 buses, each using on average 61.2 gallons of fuel per week, at \$1.98 per gallon, with a 26% reduction in fuel consumption, you will save \$252/week, \$1,084/month, and \$13,008/Year.

Carbon Emissions

With a 26% reduction in fuel consumption for the 8 buses, your total carbon¹ emissions would be reduced by 67 metric tons/year for diesel.

FYI: 200 bus scenario

Fuel Savings

For 200 buses, each using on average 61.2 gallons of fuel per week, at \$1.98 per gallon, with a 26% reduction in fuel consumption, you will save \$6,301/week, \$27,094/month, and \$325,128/year.

Carbon Emissions

With a 26% reduction in fuel consumption for the 200 buses, your total carbon¹ emissions would be reduced by 1,667 metric tons/year for diesel.

carbon¹ emissions - These are based only on the reduced fuel use, and don't include emissions reductions our product offers.

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| Service Vehicle# | MPG | | | | % of Fuel Savings | Fuel Used |
|---------------------|--------|--------|--------|--------|----------------------|-----------|
| | Feb-09 | Mar-09 | Apr-09 | May-09 | | |
| 45T | 9.6 | 15.3 | 16.2 | 14.2 | 47% | 489.9 |

Average Fuel Used per week. **30.6 Gallons**

Fuel Savings

For 1 vehicle, using on average 30.6 gallons of fuel per week, at \$1.98 per gallon, with a 47% reduction in fuel consumption, you will save \$28/week, \$120/month, and \$1,440/year.

Carbon Emissions

With a 47% reduction in fuel consumption for the 1 vehicle, your total carbon¹ emissions would be reduced by 6.58 metric tons/year for gasoline.

FYI: 25 vehicle scenario

Fuel Savings

For 25 vehicles, using on average 30.6 gallons of fuel per week, at \$1.98 per gallon, with a 47% reduction in fuel consumption, you will save \$712/week, \$3,062/month, and \$36,744/year.

Carbon Emissions

With a 47% reduction in fuel consumption for the 25 vehicles, your total carbon¹ emissions would be reduced by 165 metric tons/year for gasoline.

carbon¹ emissions - These are based only on the reduced fuel use, and don't include emissions reductions our product offers.

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| <u>Service Vehicle#</u> | <u>Date</u> | <u>Mileage</u> | <u>Gallons</u> | <u>MPG</u> | <u>Bus#</u> | <u>Date</u> | <u>Mileage</u> | <u>Gallons</u> | <u>MPG</u> | <u>Bus#</u> | <u>Date</u> | <u>Mileage</u> | <u>Gallons</u> | <u>MPG</u> |
|-------------------------|-------------|----------------|----------------|------------|-------------|-------------|----------------|----------------|------------|-------------|-------------|----------------|----------------|------------|
| 45T | Feb. 1 | 215580 | | | 43 | Feb. 1 | 56505 | | | 213 | Feb. 1 | 195886 | | |
| | Feb. 28 | <u>216913</u> | | | | Feb. 28 | <u>59249</u> | | | | Feb. 28 | <u>197650</u> | | |
| | | 1333 | 138.4 | 9.6 | | | 2744 | 365.5 | 7.5 | | | 1764 | 250.8 | 7.0 |
| | 1-Mar | 216913 | | | | 1-Mar | 59249 | | | | 1-Mar | 197650 | | |
| | 31-Mar | <u>218304</u> | | | | 31-Mar | <u>62360</u> | | | | 31-Mar | <u>199502</u> | | |
| | | 1391 | 91.2 | 15.3 | | | 3111 | 355.6 | 8.7 | | | 1852 | 231.7 | 8.0 |
| | 1-Apr | 218304 | | | | 1-Apr | 62360 | | | | 1-Apr | 199502 | | |
| | 30-Apr | <u>220187</u> | | | | 30-Apr | <u>66100</u> | | | | 30-Apr | <u>202105</u> | | |
| | | 1883 | 116.2 | 16.2 | | | 3740 | 440 | 8.5 | | | 2603 | 324.6 | 8.0 |
| | 1-May | 220187 | | | | 1-May | 66100 | | | | 1-May | 202105 | | |
| | 31-May | <u>222232</u> | | | | 30-May | <u>69980</u> | | | | 30-May | <u>204317</u> | | |
| | | 2045 | 144.1 | 14.2 | | | 3880 | 458.2 | 8.5 | | | 2212 | 269.9 | 8.2 |
| | | | 489.9 | | | | | 1619.3 | | | | | 1077.0 | |

| <u>Bus#</u> | <u>Date</u> | <u>Mileage</u> | <u>Gallons</u> | <u>MPG</u> | <u>Bus#</u> | <u>Date</u> | <u>Mileage</u> | <u>Gallons</u> | <u>MPG</u> | <u>Bus#</u> | <u>Date</u> | <u>Mileage</u> | <u>Gallons</u> | <u>MPG</u> |
|-------------|-------------|----------------|----------------|------------|-------------|-------------|----------------|----------------|------------|-------------|-------------|----------------|----------------|------------|
| 224 | Feb. 1 | 196276 | | | 229 | Feb. 1 | 19008 | | | 252 | Feb. 1 | 82810 | | |
| | Feb. 28 | <u>197474</u> | | | | Feb. 28 | <u>19853</u> | | | | Feb. 28 | <u>84560</u> | | |
| | | 1198 | 181.3 | 6.6 | | | 845 | 132.5 | 6.4 | | | 1750 | 263.2 | 6.6 |
| | 1-Mar | 197474 | | | | 1-Mar | 19853 | | | | 1-Mar | 84560 | | |
| | 31-Mar | <u>199046</u> | | | | 31-Mar | <u>21604</u> | | | | 31-Mar | <u>86719</u> | | |
| | | 1572 | 246.4 | 6.4 | | | 1751 | 209.9 | 8.3 | | | 2159 | 312.8 | 6.9 |
| | 1-Apr | 199046 | | | | 1-Apr | 21604 | | | | 1-Apr | 86719 | | |
| | 30-Apr | <u>200783</u> | | | | 30-Apr | <u>23514</u> | | | | 30-Apr | <u>88911</u> | | |
| | | 1737 | 236.1 | 7.4 | | | 1910 | 231.2 | 8.3 | | | 2192 | 304.5 | 7.2 |
| | 1-May | 200783 | | | | 1-May | 23514 | | | | 1-May | 88911 | | |
| | 30-May | <u>202445</u> | | | | 30-May | <u>25458</u> | | | | 30-May | <u>91187</u> | | |
| | | 1662 | 218.7 | 7.6 | | | 1944 | 230 | 8.5 | | | 2276 | 324.8 | 7.0 |
| | | | 882.5 | | | | | 803.6 | | | | | 1205.3 | |

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| <u>Bus#</u> | <u>Date</u> | <u>Mileage</u> | <u>Gallons</u> | <u>MPG</u> | <u>Bus#</u> | <u>Date</u> | <u>Mileage</u> | <u>Gallons</u> | <u>MPG</u> | <u>Bus#</u> | <u>Date</u> | <u>Mileage</u> | <u>Gallons</u> | <u>MPG</u> |
|-------------|-------------|----------------|----------------|------------|-------------|-------------|----------------|----------------|------------|-------------|-------------|----------------|----------------|------------|
| 263 | Feb. 1 | 32834 | | | 275 | Feb. 1 | 12782 | | | 287 | Feb. 1 | 6406 | | |
| | Feb. 28 | <u>33585</u> | | | | Feb. 28 | <u>13552</u> | | | | Feb. 28 | <u>7514</u> | | |
| | | 751 | 183.4 | 4.1 | | | 770 | 171.1 | 4.5 | | | 1108 | 197 | 5.6 |
| | 1-Mar | 33585 | | | | 1-Mar | 13552 | | | | 1-Mar | 7514 | | |
| | 31-Mar | <u>34334</u> | | | | 31-Mar | <u>14436</u> | | | | 31-Mar | <u>9538</u> | | |
| | | 749 | 130 | 5.8 | | | 884 | 136.5 | 6.5 | | | 2024 | 261.5 | 7.7 |
| | 1-Apr | 34334 | | | | 1-Apr | 14436 | | | | 1-Apr | 9538 | | |
| | 30-Apr | <u>35307</u> | | | | 30-Apr | <u>15349</u> | | | | 30-Apr | <u>11551</u> | | |
| | | 973 | 163.3 | 6.0 | | | 913 | 140.6 | 6.5 | | | 2013 | 269.6 | 7.5 |
| | 1-May | 35307 | | | | 1-May | 15349 | | | | 1-May | 11551 | | |
| | 30-May | <u>35998</u> | | | | 30-May | <u>16359</u> | | | | 30-May | <u>14059</u> | | |
| | | 691 | 116.5 | 5.9 | | | 1010 | 157.3 | 6.4 | | | 2508 | 317.5 | 7.9 |
| | | | 593.2 | | | | | 605.5 | | | | | 1045.6 | |

Bottom Line: Estimate of Fuel Savings and Reduced Carbon

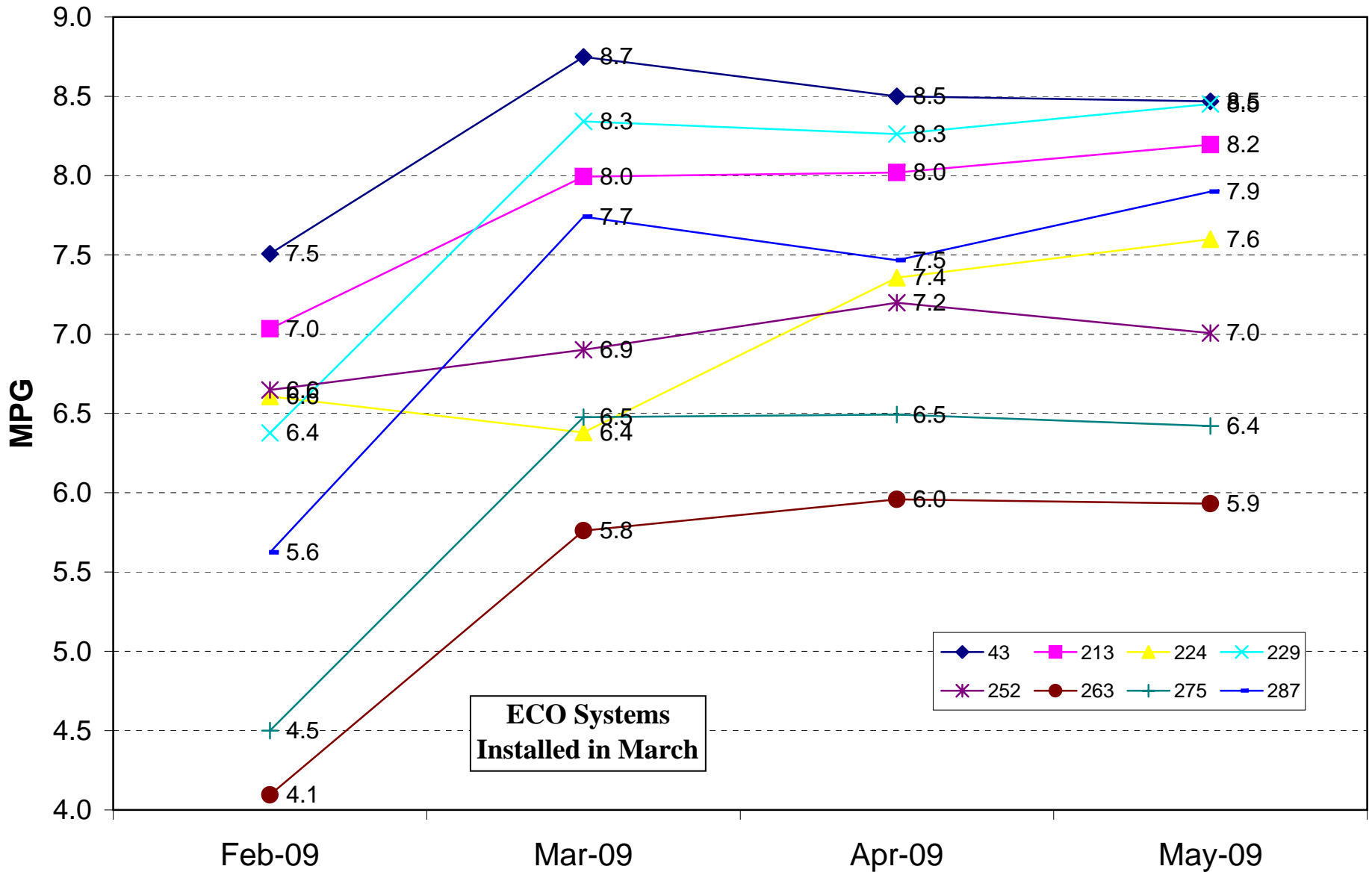
| | | | | | |
|-------------|-----|----------|--------------|------------------|-----------------------|
| Fuel | 200 | Buses | Diesel | \$325,128 | |
| | 25 | Vehicles | Gasoline | \$36,744 | |
| | | | Total | \$361,872 | per year fuel savings |

| | | | | | |
|---------------|-----|----------|--------------|--------------|-------------------|
| Carbon | 200 | Buses | Diesel | 1,667 | metric tons/year. |
| | 25 | Vehicles | Gasoline | 165 | metric tons/year. |
| | | | Total | 1,832 | metric tons/year. |

**The approximate cost to install the Eco Systems product on all vehicle is \$108,200.
Return on Investment (ROI) is approximately 5 to 7 months depending on fuel cost and usage.**

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**Leander I.S.D.
Bus MPG evaluation using Eco System**



**Leander I.S.D.
Truck 45T MPG evaluation using Eco System**

