# 2014 Retailers Motor Fuel Gallons Annual Report 

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## Introduction

In 2006 the lowa General Assembly enacted H.F. 2754, an act pertaining to the regulation of renewable fuels and energy and providing incentives for the installation of biofuels infrastructure and the promotion of biofuels sales. This legislation established a goal that $25 \%$ of all petroleum used in the formulation of gasoline be replaced by biofuels by the year 2020.

To measure the State's progress toward achieving this goal, new reporting requirements for motor fuel retailers, administered by the Department of Revenue, were established (lowa Code section 452A.33). In consultation with the Renewable Fuels Infrastructure Board, motor fuel retailers, and other interested parties, the Department established an annual reporting requirement by administrative rule (701-67.27).

Annual reports are due to the Department by January $31^{\text {st }}$ for each subsequent year. However, because there are no penalties imposed for not filing a report, the information provided in this report does not reflect all retail motor fuel sales in the state. Motor fuel retailers filed the first annual report for sales made during calendar year 2007.

## Reporting Requirements

Motor fuel retailers shall file either a paper form or an electronic file with annual motor fuel sales by location. The Retailers Motor Fuel Gallons Annual Report requires retailers to provide information on retail gallons sold for the following fuel types:

- Gasoline (non-ethanol blend)
- Ethanol E10 blend (10 to 14\% ethanol)
- Ethanol E15/E20 blend (15 to 69\% ethanol)
- Ethanol E85 blend (70 to 85\% ethanol)
- Clear diesel (all blends)
- Dyed diesel (all blends)

The distinction between clear diesel and dyed diesel reflects whether the fuel is subject to State and federal road taxes. Dyed diesel fuel is not subject to road taxes and is sold for use in farm, construction, and other types of equipment that do not travel under their own power on public roads, except for short distances such as between farm fields.

For biodiesel additional detailed information is required for the sales of the following fuel blends:

- Clear B2 (2\% biodiesel)
- Clear B5 (5\% biodiesel)
- Clear B10 (10\% biodiesel)
- Clear B20 (20\% biodiesel)
- Clear Biodiesel Other
- Dyed B2 (2\% biodiesel)
- Dyed B5 (5\% biodiesel)
- Dyed B10 (10\% biodiesel)
- Dyed B20 (20\% biodiesel)
- Dyed Biodiesel Other


## Statistical Summary for 2014

The Department identified 2,593 potential retail locations at which motor fuel may have been sold during 2014. Paper report forms were mailed to 1,547 locations identified using Department of Agriculture and Land Stewardship motor fuel license information and the Department of Revenue motor fuel tax database. Electronic report files were emailed to fifteen large motor fuel retailers with 1,046 locations.

The Department received either paper forms or electronic files representing 2,158 ( $83.2 \%$ ) of the locations. Replies from 59 locations indicated that no retail sales of any type of motor fuel were made during 2014. 2,099 locations reported retail motor fuel sales. Of those 2,099 paper reporters eleven were out of state retailers and are not included in this analysis. The analysis is based on the 2,088 lowa retailers (see Table 1).

The response rate in 2014 is the lowest in the history of this report. The Department mailed the reports in late December. However in mid-January, retailers began to call the Department to inquire about when the reports were to be received. It became clear that the original mailing was not widely delivered. The Department sent out a second mailing that was unfortunately received around the time of the specified deadline. Directions noted the need for the second mailing and asked retailers to return the report as soon as possible. This glitch is likely the reason for the reduced compliance with completing the report.

Of the reporting 2,088 lowa retail locations, 1,983 (95.4\%) reported selling E10 blend motor fuel, 84 (4.0\%) reported selling E15/E20, 209 (10.0\%) reported selling E85, and 368 (17.6\%) reported selling one or more of the various blends of biodiesel. Biofuel sales by these locations are summarized below and in Table 1.

## Gasoline Fuel Sales

During 2014, the reported amount of E10 gasoline sold equaled 1,269.7 million gallons, the amount of E85 gasoline sold equaled 12.1 million gallons, and the amount of E15/E20 gasoline equaled 4.0 million gallons. Combined, the three ethanol blends represented $85.8 \%$ of total gasoline motor fuel sales during the year. 1,991 ( $96.7 \%$ ) of the 2,058 locations that sold gasoline motor fuels sold one or more ethanol blend.

Because over 16\% of locations did not return their Retailers Motor Fuel Gallons Annual Report to the Department for 2014, gallons from the Department's Monthly Motor Fuel Tax Reports were used to estimate the amount of underreporting of gasoline sales. The
gallons presented in the Monthly Motor Fuel Tax Reports reflect taxable motor fuel shipped from terminals rather than gallons sold at retail locations. Because the Monthly Motor Fuel Tax Reports reflect fuel shipments made during the prior month, taxable gallons reported in the monthly reports covering February 2014 through January 2015 were compared with gallons reported as sold by retailers completing the 2014 annual report. During this period, fuel taxes were paid on a total of $1,659.8$ million gallons of gasoline fuels. In comparison, the $83.2 \%$ of retail locations that filed annual reports indicated $1,498.9$ million gallons of gasoline fuels were sold, including all ethanol blends and non-ethanol gasoline, which equals $90.3 \%$ of taxable gallons, reported for 2014. Despite the low response rate, this share is just above the $90.2 \%$ of taxable gallons reported in 2013.

## Diesel Fuel Sales

During 2014, based on annual reports submitted to the Department, the amount of clear biodiesel sold equaled 314.4 million gallons, or $56.1 \%$ of total clear diesel fuel sales. Retailers reported selling 560.6 million of gallons of clear diesel fuel. In comparison, the number of taxable (clear) gallons of diesel fuel shipped during 2014 as reported on the Monthly Motor Fuel Tax Reports equaled 714.0 million. Therefore, retailers completing annual reports for 2014 accounted for $78.5 \%$ of diesel fuel on which fuel taxes were paid. This is down from the 79.5\% reported in 2013.

Also, during 2014, 164.4 million gallons of dyed (non-taxed) diesel fuel sales were reported on the annual reports, including 40.3 million biodiesel gallons (24.5\%). Dyed diesel gallons are not captured in the Monthly Motor Fuel Tax Reports.

Based on the annual reports, 1,247 locations sold clear diesel fuel and 114 of these locations sold clear biodiesel fuel during 2014. In addition, 309 locations sold dyed diesel fuel and 114 of these locations sold dyed biodiesel fuel during 2014.

Total diesel gallons reported were 725.0 million gallons and total biodiesel gallons were 354.8 million gallons; therefore, biodiesel blended gallons accounted for $48.9 \%$ of diesel gallons sold by reporting retailers.

Table 1. Iowa Gasoline, Diesel, and Biofuel Sales for Calendar Year 2014

| Data Description | Locations | Gallons | Pure Petroleum/Diesel | Pure Biofuel |
| :---: | :---: | :---: | :---: | :---: |
| Gasoline (Non-Ethanol) | 1,673 | 213,252,397 | 213,252,397 | 0 |
| Ethanol |  |  |  |  |
| E10 | 1,983 | 1,269,655,383 | 1,142,689,845 | 126,965,538 |
| E15/E20 | 84 | 3,953,477 | 3,360,455 | 593,022 |
| E85 | 209 | 12,081,095 | 2,537,030 | 9,544,065 |
| Total Ethanol | 1,991 | 1,285,689,955 | 1,148,587,330 | 137,102,625 |
| Total Gasoline and Ethanol | 2,058 | 1,498,942,352 | 1,361,839,727 | 137,102,625 |
| Ethanol Share | 96.7\% | 85.8\% |  | 9.1\% |
| Clear Diesel (Non-Biodiesel) | 1,247 | 246,127,832 | 246,127,832 | 0 |
| Clear Biodiesel |  |  |  |  |
| B2 Clear | 54 | 11,435,901 | 11,207,183 | 228,718 |
| B5 Clear | 271 | 70,926,368 | 67,380,050 | 3,546,318 |
| B10 Clear | 140 | 49,066,144 | 44,159,530 | 4,906,614 |
| B20 Clear | 29 | 43,515,597 | 34,812,478 | 8,703,119 |
| Other Clear | 55 | 139,501,853 | 125,639,088 | 13,862,765 |
| Subtotal Clear Biodiesel | 326 | 314,445,863 | 283,198,328 | 31,247,535 |
| Clear Biodiesel Share | 20.7\% | 56.1\% |  | 9.9\% |
| Total Clear Diesel | 1,247 | 560,573,695 | 529,326,160 | 31,247,535 |
| Dyed Diesel (Non-Biodiesel) | 309 | 124,108,751 | 124,108,751 | 0 |
| Dyed Biodiesel |  |  |  |  |
| B2 Dyed | 35 | 1,509,752 | 1,479,557 | 30,195 |
| B5 Dyed | 87 | 33,766,218 | 32,077,907 | 1,688,311 |
| B10 Dyed | 21 | 1,231,759 | 1,108,583 | 123,176 |
| B20 Dyed | 12 | 403,228 | 322,582 | 80,646 |
| Other Dyed | 28 | 3,394,109 | 3,217,343 | 176,766 |
| Subtotal Dyed Biodiesel | 114 | 40,305,066 | 38,205,973 | 2,099,093 |
| Dyed Biodiesel Share | 27.0\% | 24.5\% |  | 5.2\% |
| Total Dyed Diesel |  | 164,413,817 | 162,314,724 | 2,099,093 |
| Total Biodiesel | 368 | 354,750,929 | 321,404,301 | 33,346,628 |
| Total Diesel and Biodiesel | 1,301 | 724,987,512 | 691,640,884 | 33,346,628 |
| Biodiesel Share | 28.3\% | 48.9\% |  | 4.6\% |
| Total Fuel All Types | 2,088 | 2,223,929,864 | 2,053,480,611 | 170,449,253 |
| Pure Biofuels Share of Gasoline and Diesel |  |  |  | 7.7\% |
| Biofuel Distribution Percen |  |  |  | 11.4\% |

Source: 2014 Retailers Motor Fuel Gallons Annual Reports

## Biofuel Distribution Percentage

The primary purpose of this report is to provide the information needed to determine the State's progress toward replacing $25 \%$ of petroleum-based motor fuels with biofuels by the year 2020. Table 1 provides estimates of the breakdown between petroleum or diesel and pure biofuel for each fuel type.

For the purpose of measuring progress toward that goal, the following computations were made to estimate the amount of each type of fuel sold that was pure biofuel:

- For E10 blend gasoline fuel the number of gallons was multiplied by 0.10
- For E15/20 blend gasoline fuel the number of gallons was multiplied by 0.15
- For E85 blend gasoline fuel the number of gallons was multiplied by 0.79
- For B2 blend diesel fuel the number of gallons was multiplied by 0.02
- For B5 blend diesel fuel the number of gallons was multiplied by 0.05
- For B10 blend diesel fuel the number of gallons was multiplied by 0.10
- For B20 blend diesel fuel the number of gallons was multiplied by 0.20
- For other biodiesel blends the number of gallons was multiplied by the average pure biodiesel share based on the four reported blends (for clear other biodiesel: 0.099 and for dyed other biodiesel 0.052)

These calculations indicate that during 2014 pure ethanol comprised $9.1 \%$ of the volume of total gasoline and ethanol fuel sales. The aggregate ethanol gallonage, which is the number of pure ethanol gallons sold by retailers during 2014, was 137.1 million gallons. Pure biodiesel comprised $4.6 \%$ of diesel and biodiesel sales. The aggregate biodiesel gallonage, which is the number of pure biodiesel gallons sold by retailers during 2014, was 33.3 million gallons. Together, pure ethanol and pure biodiesel comprised $7.7 \%$ of all fuel sales reported by retail locations. However, the formula specified in lowa Code 452.31 (8) for the biofuel distribution percentage used to determine progress toward meeting the $25 \%$ biofuels goal does not include diesel fuel in its denominator. The formula is:

Biofuel Distribution Percentage $=$ (Pure Ethanol Gallons + Pure Biodiesel Gallons) / Total Gasoline Gallons

Using this formula, during 2014 biofuels accounted for $11.4 \%$ of lowa retail motor fuel sales. This is an increase from the revised $10.7 \%$ calculated for 2013. The revised sales data for 2013 are presented in the Appendix.

Figure 1 presents the biofuel distribution percentage reported in the 2007 through the 2014 calendar years. Between 2010 and 2013, the State percentage increased 0.5 percentage points each year solely as a result of higher biodiesel usage. The 0.7 percentage point jump to $11.4 \%$ in calendar year 2014 reflects in part continued growth in biodiesel ( 0.2 percentage points), but mostly an increase in ethanol gasoline sales (0.5 percentage points).

Figure 1: Biofuel Distribution Percentages Based on Annual Retailer Motor Fuel Reports, 2007-2013


The rise in ethanol sales resulted from a pipeline change which occurred in late 2013. lowa's largest pipeline operator, Magellan Midstream Partners, stopped shipping 87octane gasoline to its lowa terminals and instead shipped 84-octane gasoline which cannot be legally sold because lowa requires a minimum 87 -octane fuel at gas pumps. Boosting the fuel to the minimum required 87 -octane requires either blending with ethanol ( 87 -octane fuel can be created by blending $90 \% 84$-octane gasoline with $10 \%$ ethanol because ethanol has a high octane content) or with more expensive 91 -octane premium gasoline. The need to include premium in any non-ethanol gasoline raised the relative price of non-ethanol gasoline. The impact of the pipeline change is seen in the higher ethanol sales in lowa during 2014.

Although the $25 \%$ goal was for the state as a whole, it is instructive to consider that same measure at the retailer and county level. Figure 2 illustrates the breakdown of retail locations by biofuel distribution percentage calculated using the sales reported by each retail location for which Retailers Motor Fuel Gallons Annual Reports were filed in 2014 or 2013. The data includes only the retail locations that reported gasoline or ethanol sales in the respective calendar year, excluding those with only diesel sales reported. However, as noted above, the calculation of the biofuel distribution percentage includes any pure biodiesel sales reported at those locations.

The sharp decline in the share of retailers reporting less than an 8.0\% biofuel distribution percentage in 2014 (17\%) compared to 2013 (50\%) again reflects the impact of the pipeline change in late 2013. In calendar year 2014 there was a significant
increase in those retailers reporting a biofuel distribution percentage between $8.0 \%$ and $9.99 \%$, $27 \%$ of retailers in 2013 to $60 \%$ of retailers in 2014. The 10.0\% to 11.99\% category grew slightly from $12 \%$ in 2013 to $14 \%$ in 2014. The rest of the categories had no significant changes.

Figure 2: Breakdown of Retail Locations by Reported Biofuel Distribution Percentage


To further illustrate the variation in sales of biofuel among lowa retailers, Figure 3 maps the biofuel distribution percentage calculated by county. These percentages are based on total sales reported by the retailers within each county who remitted the 2014 annual gallons report. No county exceeded the $25 \%$ goal, although nine counties had pure biofuel sales comprising between $15.0 \%$ and $24.99 \%$ of total motor fuel sales. Only five counties had biofuel distribution percentages below $8.0 \%$. The majority of the counties (forty-five) fall in the $8.0 \%$ to $9.99 \%$ category.

Table 3 provides the total gallons of non-ethanol gasoline, ethanol, clear and dyed nonbiodiesel diesel, and clear and dyed biodiesel gallons for all counties with more than five retailers reporting sales to the Department.

Figure 3. Biofuel Distribution Percentage by County for 2014


## Biofuel Share by County



Table 2. Calendar Year 2014 Total Gallons by County

| County | Number of Retail Locations | Non-Ethanol Gas Sales | Ethanol Gas Sales | Clear and Dyed Diesel Sales | Clear and Dyed Biodiesel |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ADAIR | 11 | 1,498,410 | 7,153,133 | 1,321,561 | 432,515 |
| ALLAMAKEE | 16 | 1,322,461 | 6,096,143 | 1,007,143 | 581,356 |
| APPANOOSE | 14 | 389,801 | 4,504,969 | 1,471,576 | 396,831 |
| AUDUBON | 7 | 211,272 | 2,251,831 | 1,804,137 | 477,334 |
| BENTON | 17 | 1,096,102 | 7,993,274 | 2,399,618 | 125,858 |
| BLACK HAWK | 62 | 9,074,884 | 46,272,539 | 6,649,975 | 17,284,847 |
| BOONE | 14 | 1,193,860 | 9,107,604 | 1,900,618 | 333,389 |
| BREMER | 13 | 2,262,557 | 9,093,542 | 2,283,837 | 38,062 |
| BUCHANAN | 18 | 1,368,303 | 7,718,064 | 2,414,267 | 172,974 |
| BUENA VISTA | 26 | 1,179,545 | 10,265,077 | 6,308,029 | 0 |
| BUTLER | 13 | 749,377 | 4,405,617 | 486,123 | 1,169,292 |
| CALHOUN | 15 | 384,323 | 3,969,251 | 2,535,128 | 0 |
| CARROLL | 29 | 1,764,296 | 9,192,933 | 9,614,854 | 328,098 |
| CASS | 17 | 913,270 | 7,872,401 | 4,423,588 | 209,332 |
| CEDAR | 18 | 1,528,116 | 8,791,090 | 4,362,994 | 12,898,052 |
| CERRO GORDO | 28 | 4,347,752 | 22,000,207 | 1,808,321 | 16,496,314 |
| CHEROKEE | 14 | 655,089 | 4,490,381 | 2,316,384 | 352,231 |
| CHICKASAW | 12 | 1,331,510 | 5,668,456 | 3,056,476 | 2,088,216 |
| CLARKE | 9 | 1,108,077 | 5,968,259 | 1,062,938 | 8,384,848 |
| CLAY | 23 | 1,263,809 | 6,318,132 | 4,404,199 | 63,526 |
| CLAYTON | 24 | 1,447,824 | 7,777,262 | 1,630,326 | 260,101 |
| CLINTON | 30 | 2,318,379 | 20,213,142 | 8,300,150 | 713,020 |
| CRAWFORD | 15 | 1,359,812 | 6,862,022 | 6,583,810 | 15,848 |
| DALLAS | 31 | 5,953,085 | 32,110,286 | 3,990,590 | 3,701,973 |
| DECATUR | 7 | 652,485 | 2,774,250 | 807,698 | 173,042 |
| DELAWARE | 15 | 923,804 | 7,284,529 | 2,291,045 | 1,073,247 |
| DES MOINES | 20 | 3,122,262 | 13,370,454 | 1,921,214 | 0 |
| DICKINSON | 24 | 2,236,414 | 7,790,336 | 2,352,997 | 73,936 |
| DUBUQUE | 66 | 15,161,915 | 83,300,705 | 13,574,401 | 20,460,061 |
| EMMET | 9 | 540,794 | 3,833,687 | 1,192,329 | 1,153,940 |
| FAYETTE | 20 | 1,534,546 | 7,215,758 | 17,445,237 | 79,941 |
| FLOYD | 15 | 1,258,966 | 5,865,627 | 3,948,103 | 210,968 |
| FRANKLIN | 14 | 601,746 | 5,164,500 | 2,741,387 | 1,316,656 |
| FREMONT | 9 | 1,538,424 | 6,407,869 | 5,598,653 | 10,905,457 |
| GREENE | 11 | 516,582 | 3,794,825 | 1,410,312 | 76,196 |
| GRUNDY | 12 | 722,462 | 5,755,981 | 3,610,481 | 2,077,390 |
| GUTHRIE | 11 | 409,181 | 4,562,162 | 1,058,652 | 8,723,861 |
| HAMILTON | 8 | 880,191 | 5,065,447 | 502,665 | 3,017,805 |
| HANCOCK | 11 | 636,572 | 3,391,038 | 4,008,132 | 51,677 |
| HARDIN | 19 | 906,990 | 6,758,064 | 1,875,581 | 755,987 |
| HARRISON | 17 | 700,365 | 6,895,501 | 3,737,596 | 9,569 |
| HENRY | 18 | 1,104,543 | 10,983,244 | 1,119,923 | 1,786,031 |
| HOWARD | 10 | 529,036 | 3,701,477 | 2,328,286 | 545,491 |
| HUMBOLDT | 15 | 650,408 | 4,140,377 | 5,182,877 | 199,081 |
| IDA | 11 | 753,721 | 2,671,331 | 2,296,151 | 24,700 |
| IOWA | 17 | 1,685,810 | 8,245,502 | 3,638,767 | 703,936 |
| JACKSON | 20 | 1,155,313 | 7,537,085 | 4,804,413 | 47,965 |
| JASPER | 25 | 2,090,382 | 16,161,763 | 4,937,367 | 14,474,553 |

Table 2. Calendar Year 2014 Total Gallons by County (continued)

| County | Number of Retail Locations | Non-Ethanol Gas Sales | Ethanol Gas Sales | Clear and Dyed Diesel Sales | Clear and Dyed Biodiesel |
| :---: | :---: | :---: | :---: | :---: | :---: |
| JEFFERSON | 17 | 965,426 | 5,366,263 | 1,340,769 | 872,770 |
| JOHNSON | 59 | 7,256,034 | 42,120,533 | 5,491,589 | 5,996,647 |
| JONES | 13 | 1,015,306 | 7,613,913 | 2,451,459 | 625,510 |
| KEOKUK | 12 | 479,984 | 4,074,623 | 1,490,958 | 1,244,936 |
| KOSSUTH | 19 | 831,912 | 7,348,765 | 9,969,709 | 623,538 |
| LEE | 25 | 2,211,605 | 14,172,050 | 4,983,207 | 750,052 |
| LINN | 87 | 12,034,833 | 82,057,462 | 10,082,793 | 5,465,565 |
| LOUISA | 8 | 498,196 | 3,927,182 | 907,161 | 1,500 |
| LUCAS | 7 | 386,742 | 2,792,741 | 0 | 2,954,842 |
| LYON | 14 | 1,057,317 | 5,736,378 | 2,973,901 | 28,161 |
| MADISON | 11 | 1,085,956 | 7,451,061 | 6,963,751 | 937,871 |
| MAHASKA | 17 | 881,781 | 9,360,011 | 4,103,878 | 1,674,268 |
| MARION | 23 | 1,286,777 | 13,030,314 | 3,883,494 | 45,098 |
| MARSHALL | 23 | 2,339,616 | 11,938,211 | 0 | 1,433,929 |
| MILLS | 10 | 545,640 | 5,153,586 | 2,747,781 | 176,714 |
| MITCHELL | 10 | 641,835 | 3,402,518 | 296,170 | 196,725 |
| MONONA | 11 | 1,461,969 | 5,194,939 | 3,866,940 | 1,443,066 |
| MONROE | 6 | 345,779 | 3,196,583 | 251,083 | 0 |
| MONTGOMERY | 7 | 528,213 | 3,031,375 | 915,801 | 0 |
| MUSCATINE | 22 | 2,474,144 | 13,732,211 | 3,020,067 | 557,706 |
| OBRIEN | 19 | 988,379 | 6,017,423 | 2,936,478 | 162,858 |
| OSCEOLA | 7 | 225,202 | 2,320,250 | 2,684,273 | 33,491 |
| OTHER | 6 | 414,135 | 2,859,966 | 403,002 | 0 |
| PAGE | 9 | 569,651 | 5,687,711 | 654,355 | 528,614 |
| PALO ALTO | 11 | 402,304 | 4,138,723 | 3,102,539 | 0 |
| PLYMOUTH | 23 | 2,227,743 | 8,906,007 | 5,019,694 | 23,614 |
| POCAHONTAS | 9 | 314,398 | 2,497,266 | 6,045,005 | 13,897 |
| POLK | 185 | 38,839,714 | 172,243,978 | 24,225,407 | 65,283,768 |
| POTTAWATTAMIE | 62 | 6,198,152 | 54,070,245 | 9,297,117 | 24,749,878 |
| POWESHIEK | 17 | 1,644,167 | 9,920,533 | 7,021,709 | 15,801,977 |
| RINGGOLD | 6 | 170,993 | 1,316,181 | 1,542,837 | 78,906 |
| SAC | 17 | 605,237 | 4,680,871 | 2,365,506 | 0 |
| SCOTT | 80 | 5,103,629 | 84,949,581 | 8,392,065 | 53,031,793 |
| SHELBY | 13 | 589,550 | 4,234,769 | 3,525,076 | 1,156,654 |
| SIOUX | 32 | 2,654,555 | 10,144,522 | 10,908,799 | 728,436 |
| STORY | 43 | 5,690,612 | 33,401,636 | 4,200,299 | 2,914,491 |
| TAMA | 15 | 748,602 | 7,646,450 | 2,162,486 | 29,993 |
| TAYLOR | 7 | 117,813 | 2,060,240 | 652,525 | 0 |
| UNION | 11 | 655,840 | 4,912,306 | 994,580 | 387,661 |
| VAN BUREN | 8 | 263,791 | 2,310,183 | 750,257 | 83,592 |
| WAPELLO | 27 | 2,091,158 | 15,126,339 | -801,913 | 3,887,157 |
| WARREN | 25 | 2,619,897 | 19,196,877 | 1,536,120 | 1,006,207 |
| WASHINGTON | 25 | 1,652,781 | 12,043,839 | 5,139,207 | 8,512,326 |
| WAYNE | 7 | 228,303 | 1,934,472 | 338,587 | 577,248 |
| WEBSTER | 28 | 1,571,849 | 15,399,044 | 4,276,273 | 105,092 |
| WINNEBAGO | 18 | 687,690 | 4,729,297 | 2,339,227 | 102,902 |
| WINNESHIEK | 17 | 1,608,062 | 7,442,880 | 3,358,248 | 4,233 |
| WOODBURY | 50 | 8,154,512 | 37,682,679 | 12,717,794 | 15,493,480 |
| WORTH | 10 | 1,994,348 | 3,254,648 | 501,566 | 457,575 |
| WRIGHT | 20 | 855,439 | 5,093,199 | 3,686,045 | 100,681 |
| Total | 2,088 | 213,252,397 | 1,285,689,958 | 370,236,583 | 354,750,929 |

Other includes counties with five or less retailers reporting. (Adams and Davis)
Source: 2014 Retail Motor Fuel Gallons Annual Reports

Appendix
Revised Table. Iowa Gasoline, Diesel, and Biofuel Sales for Calendar Year 2013

| Data Description | Locations | Gallons | Pure Petroleum/Diesel | Pure Biofuel |
| :---: | :---: | :---: | :---: | :---: |
| Gasoline (Non-Ethanol) | 1,845 | 259,638,996 | 259,638,996 | 0 |
| Ethanol |  |  |  |  |
| E10 | 2,022 | 1,185,095,674 | 1,066,586,107 | 118,509,567 |
| E15/E20 | 77 | 2,876,206 | 2,444,775 | 431,431 |
| E85 | 206 | 11,152,763 | 2,342,080 | 8,810,683 |
| Total Ethanol | 2,032 | 1,199,124,643 | 1,071,372,962 | 127,751,681 |
| Total Gasoline and Ethanol | 2,117 | 1,458,763,639 | 1,331,011,958 | 127,751,681 |
| Ethanol Share | 96.0\% | 82.2\% |  | 8.8\% |
| Clear Diesel (Non-Biodiesel) | 1,273 | 234,033,317 | 234,033,317 | 0 |
| Clear Biodiesel |  |  |  |  |
| B2 Clear | 67 | 13,627,559 | 13,355,008 | 272,551 |
| B5 Clear | 267 | 80,148,715 | 76,141,279 | 4,007,436 |
| B10 Clear | 141 | 72,410,451 | 65,169,406 | 7,241,045 |
| B20 Clear | 31 | 25,235,740 | 20,188,592 | 5,047,148 |
| Other Clear | 46 | 122,000,489 | 111,440,986 | 10,559,503 |
| Subtotal Clear Biodiesel | 328 | 313,422,954 | 286,295,271 | 27,127,683 |
| Clear Biodiesel Share | 20.5\% | 57.3\% |  | 8.7\% |
| Total Clear Diesel |  | 547,456,271 | 520,328,588 | 27,127,683 |
| Dyed Diesel (Non-Biodiesel) | 313 | 125,137,732 | 125,137,732 | 0 |
| Dyed Biodiesel |  |  |  |  |
| B2 Dyed | 41 | 1,527,217 | 1,496,673 | 30,544 |
| B5 Dyed | 91 | 27,910,748 | 26,515,211 | 1,395,537 |
| B10 Dyed | 22 | 1,167,037 | 1,050,333 | 116,704 |
| B20 Dyed | 23 | 679,424 | 543,539 | 135,885 |
| Other Dyed | 41 | 3,097,403 | 2,931,202 | 166,201 |
| Subtotal Dyed Biodiesel | 125 | 34,381,829 | 32,536,957 | 1,844,872 |
| Dyed Biodiesel Share | 28.5\% | 21.6\% |  | 5.4\% |
| Total Dyed Diesel |  | 159,519,561 | 157,674,689 | 1,844,872 |
| Total Biodiesel | 347 | 347,804,783 | 318,832,228 | 28,972,555 |
| Total Diesel and Biodiesel | 1,334 | 706,975,832 | 678,003,277 | 28,972,555 |
| Biodiesel Share | 26.0\% | 49.2\% |  | 4.1\% |
| Total Fuel All Types | 2,156 | 2,165,739,471 | 2,009,015,235 | 156,724,236 |
| Pure Biofuels Share of Gasoline and Diesel |  |  |  | 7.2\% |
| Biofuel Distribution Percentage |  |  |  | 10.7\% |

Source: 2013 Retailers Motor Fuel Gallons Annual Reports

