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## What's Up with Ethanol Production Profits?

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In a *farmdoc daily* article last week (June 22, 2017), we showed that biodiesel production profits in the U.S. had moved into the black in recent months, seemingly defying the typical pattern of losses in years following the expiration of the biodiesel tax credit. Given the anomalous movement in biodiesel production profits one wonders whether something similar has been happening to ethanol production. The U.S. ethanol production industry is coming off a good year in 2016. Net profits averaged \$0.12 per gallon, about \$0.05 higher than in 2015. In the following section, we examine trends in ethanol production profits in the first half of 2017.

## Analysis

A model of a representative lowa ethanol plant is used to track the profitability of ethanol production. It is the same basic model that has been used the last several years in numerous *farmdoc daily* articles on ethanol markets and policy (e.g., January 6, 2016). The model is meant to be representative of an "average" ethanol plant constructed in the last decade. There is certainly substantial variation in capacity and production efficiency across the industry and this should be kept in mind when viewing profit estimates from the model. Details on the latest vintage of the model can be found in the *farmdoc daily* article of February 1, 2017.

Figure 1 presents (pre-tax) estimates of ethanol production profits net of all variable and fixed costs on a weekly basis from January 26, 2007 through June 23, 2017. Net profits declined sharply in January 2017, moving as low as -\$0.18 per gallon. Since that time, profits have recovered and peaked in recent weeks at \$0.20 per gallon. The recovery of ethanol profits can be traced to a rise in ethanol prices that has slightly outpaced the rise in corn prices (Figure 2). The average profit to date in 2017, however, is only \$0.01 per gallon. A significant factor pulling down ethanol profits is low DDGS prices, which have been below \$100 per ton most of the time in 2017. These are some of the lowest prices of the last decade.

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Implications

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throughout the country except in three large cities.

The U.S. ethanol production industry has had a run of positive profits since 2013 that has flown below the radar of many. The first half of 2017 interrupted this long string of healthy profits with average profits of only a penny per gallon. Whether this is merely a hiccup in the long-term trend of profitability likely depends on developments in the ethanol export market.

## farmdoc daily

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## References

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