



### **Carbon Credits for Changes in Fertilizer Management**

Carbon credits can be earned when land management techniques are implemented to reduce the N<sub>2</sub>O emissions from a farm. These credits are earned when total N used in a growing cycle has been reduced compared to previous years, though changes in timing, type, and/or placement of nitrogen fertilizer.

Reducing total N use and maintaining yields is a classic “win-win-win” for water quality, the environment, and the producer by less run off, emission reduction, and lower input costs. Research and test data demonstrate that when overall nitrogen is reduced, both the amount of Nitrous Oxide (N<sub>2</sub>O) emitted and the amount of nitrate lost to runoff and leaching is reduced.

### **How to Earn Carbon “Offset” Credits**

Changes in fertilizer management generally involve modification of timing and placement of N use from traditional practice and may include:

- ✓ Addition of nitrification inhibitor
- ✓ Switch to controlled release N
- ✓ Switch from injection to broadcast
- ✓ Use of an in-season application using:
  - Variable rate prescription application (based on yield maps or soil)
  - Variable rate application in real-time (canopy sensing)
  - Fertigation

In many cases, “economically optimal nitrogen rates” can actually use less N than traditionally recommended and increase yields simply by more proficient use and availability of N when the plant needs it most. Fertilizer management or nutrient management changes that affect this may qualify and can quickly be reviewed for eligibility.

SunOne will work in partnership with a landowner to help them earn carbon offsets for their land management choices. We generally do not prescribe one technique or another—rather we evaluate the carbon credit potential of several options to help the land owner maximize carbon income given their unique situation.

### **The California Market and Potential Benefits**

The carbon cap-and-trade system in California officially began in 2011. As a result, tens of millions of offsets will be purchased every year by emitting companies. Prices per ton of carbon on this system are expected to be greater than \$10 per ton in future.

### **About SunOne Solutions**

SunOne Solutions is a leader in developing agricultural, land management, and environmental projects for registration and trading on carbon exchange markets. SunOne's primary focus is on carbon sequestration projects on farmland, forests, grassland, and rangeland with offices in California, Colorado, Nebraska, Texas, and Sao Paulo, Brazil. To date, SunOne has successfully developed over 150 projects on over 2.2 million acres of land for over 3 million carbon “offset” credits. SunOne was named the #1 carbon aggregator in North America by Point Carbon, a top industry publication.

If you are interested in learning more about this unique opportunity, contact us at (530) 564-1110, or please visit us on the web at [www.sunonesolutions.com](http://www.sunonesolutions.com). We are happy to answer any questions you have.

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