In This Issue

2008-2009 Annual Report
The success of today's soybean farmers depends on a strong future for Nebraska soybeans. See what progress has been made in our major focus areas.

United Front
Nebraska soybean growers are playing an important role in reinforcing the biodiesel industry in today's challenging climate for renewable fuels.

Highest Biodiesel Honors Awarded at National Conference
Nebraska Soybean Association was among winners of "Eye on Biodiesel" award in the Initiative category.

NSB Consumer Linkage Program Enters 13th year
A marketing program designed to increase product distribution at the retail level by promoting awareness of soy products.
YOUR SOYBEAN CHECKOFF IS HERE.
Supporting the poultry and livestock producers who help support you.

Animal agriculture represents one of the largest customers of U.S. soy. In fact, poultry and livestock consume nearly 98 percent of soybean meal in this country. Your soybean checkoff supports your number one customer through both research aimed at improving soybean meal and partnership programs designed to maintain and grow the U.S. animal agriculture industry.

“I really appreciate the support that the soybean checkoff provides to the pork industry. It’s important for all farmers to work together to promote agriculture.”

Tim Bierman
President of the National Pork Board, Iowa Pork Producer

www.unitedsoybean.org
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NSB Call for Candidates
Districts 2, 4 and 8

Three of the nine district seats on the Nebraska Soybean Board (NSB) will be eligible for election this year. Soybean producers in District 2, 4 and 8 are invited to run for election to the Nebraska Soybean Board by filing a candidacy petition by the May 14, 2010 deadline. The election of directors will be conducted via direct-mail ballots and candidate information will be provided to all producers residing within the district in which an election is to be held.

NSB Directors receive no salary but are reimbursed for expenses incurred while carrying out Board business. Three-year terms for these seats begin October 1, 2010 and end September 30, 2013.

Seats open for producer election in 2010 are:

District 2: Counties Burt, Cuming, Dakota, Dixon, Stanton, Thurston and Wayne.

District 4: Counties of Boone, Hamilton, Merrick, Nance, Platte, Polk and York.


Candidates for the Nebraska Soybean Board must be:
- Residents of Nebraska
- At least 21 years of age
- Soybean producers in Nebraska for at least 5 previous years

Prospective candidates must collect the signatures of fifty soybean producers in their district using an official Nebraska Soybean Board Candidacy Petition and return such petition to the Nebraska Soybean Board office on or before May 14, 2010, to be eligible for placement on the ballot. To obtain a candidacy petition, contact Victor Bohuslavsky at the Nebraska Soybean Board by calling 402-432-5720 or emailing victor@nebraskasoybeans.org.

The nine-member Nebraska Soybean Board collects and disburses the Nebraska share of funds generated by the one half of one percent times the net sales price per bushel of soybeans sold. Nebraska soybean checkoff funds are invested in research, domestic and foreign markets, including new uses for soybeans and soybean products.

Do you know how your checkoff dollars are being used?
Would you like to “see for yourself” how the money is utilized?
We have many opportunities for you to learn more about the soybean checkoff.
Call 402-441-3240 to be placed on the invitation list for programs that fit your interests.
I am Lisa Lunz, the new Chairman of the Nebraska Soybean Board. This is my ninth year as a Director from District 2. My husband, Jim, and I live north of Wakefield and keep busy raising our three children. We produce corn and soybeans and were fortunate to finish harvest last fall before the first blizzard. It has been a long winter and we are looking forward to spring.

We had an excellent soybean crop in 2009 and being part of the Soybean Checkoff has allowed me to learn more about the soybean industry. Biodiesel is one area that we continue to invest dollars in as a checkoff board. It has been a growing industry, but has had its share of challenges in 2009. We are hoping that 2010 will bring more positive news to the industry. As producers we should want to use a product that we produce that has added benefits for our diesel engines, like increased lubricity.

When producers talk about soybeans, I do not think we realize the benefits that soy foods have. We tend to think about soybean meal as a protein source for livestock, but soy foods also play an important role as a protein source for humans. Soy protein is a complete protein with all nine of the essential amino acids. Recently, a research study was completed that found that eating soy can lower your risk of breast cancer. Soy has also been shown to help reduce the risk of heart disease. Soy foods are low in saturated fats and are cholesterol free which make them a good choice in a balanced diet.

The soybean is a crop that has great potential in supplying the world with feed, fuel and food. This spring, as we get ready to plant another crop and watch it grow throughout the summer, remember that there are many uses for the soybean. Your Nebraska soybean checkoff mission is to “ensure that Nebraska soy is of the highest quality possible and competitive in the global marketplace”. As soybean producers we need to remember that we need the livestock, biodiesel production, biobased industrial products, soy foods and export markets to consume our product.
from the Association

A Voice for Soybean Producers

– by Scott Richert, Gresham NE, NSA President

Welcome to my first president’s article. I was seated as the President of Nebraska Soybean Association during our annual meeting in early December. As I think back to December it doesn’t seem all that long ago many of us remember several foot drifts that took days to get through. March is already here and the spring brings busy times ahead for all of us. Let me give you a brief update on what’s happened and what lies ahead on the policy front in Lincoln and Washington D.C..

We continue monitoring bills at the Statehouse that have to do with a beginning farmer program, limiting the NRD’s use of eminent domain, working with livestock friendly counties on locating new sites and of course watching tax bills.

So far this session, we have submitted letters on bills dealing with livestock welfare by separating livestock from companion animals in animal cruelty situations and making it illegal to transfer cash funds (checkoff) unless specified by law.

We also testified on a bill to repeal the use of the ethanol checkoff on corn and grain sorghum for use in the water resource cash fund.

In Washington D.C., we had been working hard to get the biodiesel tax credit extended before it expired December 31, 2009. Now we are working to get it reinstated retroactive to the first of the year. As a result of allowing the credit lapse, biodiesel production in the U.S. has essentially stopped. Companies have started laying-off employees and taking other steps to cut costs.

Just last month it was announced that hearings on the new farm bill will start in March. Didn’t we just finish a farm bill?

It is never a dull moment at your Nebraska Soybean Association. We will keep working for the betterment of Nebraska soybean producers but we need your help. We can’t do this without your membership. No checkoff funds can be used for lobbying. The issues discussed above require lobbying. We can only use the money from membership dues for our work in Lincoln and Washington D.C. If you raise soybeans and believe in the soybean industry you need to belong to the association. If we are not there to stand up for the soybean farmer, who do you think will be? (HSUS, Greenpeace??). Have a safe and productive spring planting season.

If You Believe…

Belong

I believe that by being a member we are working together and speaking as one voice to represent soybean producers. The leadership of both the Nebraska Soybean Association and American Soybean Association are soybean growers themselves – bringing a farmer’s perspective to the policy and legislative issues.

I believe that members care about the future of their industry. They see the value of supporting an organization that has a direct payback to their operations.

I believe that like it or not, Washington DC has a lot to do with the profitability of our operations. Your state and national Soybean Association’s continue its efforts in Washington DC representing your interests on many issues we are facing in agriculture and the soybean industry.

That’s why I belong and I am involved with the Nebraska Soybean Association.

– Jason Lavene, (NSA Director, Bertrand, NE)
Nebraska Soybean Board Building a Better Future for Nebraska Soybean Farmers
2008-2009 ANNUAL REPORT

The success of today’s soybean farmers depends on a strong future for Nebraska soybeans. The nine-member Nebraska Soybean Board (NSB) collects and disburses the Nebraska share of funds generated by the one half of one percent times the net sales price per bushel of soybeans sold. Nebraska soybean checkoff funds are invested in international marketing, research, communications/producer education and domestic marketing. Below are the major focus areas of investment during 2009:

25% **International Marketing** is focused on U.S. meat protein consumption; increasing Meal consumption in international aquaculture; supported better soybean transportation options; promoted Nebraska soybean utilization in the world market and customer acceptance of soybean production technologies.

Through joint projects with Soy In Aquaculture Program, Soy Transportation Coalition (STC), United States Meat Export Federation (USMEF), U.S. Soybean Export Council (USSEC), USA Poultry & Egg Export Council (USAPEEC) and the United Soybean Board (USB), the Nebraska Soybean Board has been focused on getting all the soybeans produced consumed.

27% **Domestic Marketing** checkoff funds were invested to maintain a viable Nebraska animal agriculture industry and the utilization of soy biodiesel, and partnering with poultry and livestock industries to promote responsible production. The checkoff also identified and promoted soy product marketing opportunities and the health benefits of soy.

18% **Research** funds were invested to increase yield and value of Nebraska soybeans, through research projects being conducted by the University of Nebraska such as: Soybean Breeding and Genetics Research for Nebraska; Winter Nursery Support for Soybean Breeding and Genetic Research; North Central Soybean Research; Influence of Irrigation and Crop Rotation Sequence on SCN Populations; Enhancing Soybean Germplasm through Biotechnology and Improving Nebraska’s Soybean Seed Protein and Oil Content.

Additional research projects were funded to increase utilization of soy by animal agriculture and aquaculture industries, and industrial uses of soybeans.

24% **Communications/Producer Education** funding informs soybean producers about research to increase their profitability, to educate them about the importance of animal agriculture – their number one customer; to increase utilization and availability of biodiesel; to provide educational meetings for producer participation; to inform producers of the value of international markets to Nebraska soybean profitability; to provide soy education in Nebraska grade schools and to see that efforts were made to increase producers interest in serving in leadership roles.

Utilized communication tools such as the SoybeanNebraska magazine, radio, TV and sporting event soy promotions, print ads placed in Nebraska magazines and newspapers, the NSB website which includes a NESOY TV page, and soy education in Nebraska schools. NSB partnering with UNL and other state commodities to promote producer acceptance of soybean production technologies – through educational events such as Winning the Game, Soybean Management Field Days and Solution Days.

6% **Administrative**: NSB is accountable with administrating the soybean checkoff. We invest in building a better future for Nebraska farmers.

**TOTAL FUNDING**
- **Checkoff Assessments**: $5,902,033
- **Interest**: 66,991
- **Miscellaneous**: 77,764
- **Total Revenues**: $6,046,788

**TOTAL EXPENDITURES**
- **International Marketing**: $1,070,843
- **Research**: 1,109,742
- **Communication/Producer Education**: 1,184,820
- **Domestic Marketing**: 1,049,286
- **Administrative**: 249,342
- **Total Expenses**: $4,664,033
The first mention of soybeans in Nebraska was in 1902 when they were first being tested by the Nebraska Agricultural Experiment Station to see if they could be grown in Nebraska soil and weather conditions. Soybeans were not taken seriously in Nebraska until 1939 when it was discovered that other Corn Belt states were profiting from soybeans as not just livestock feed and human food but for numerous industrial products. Farmers’ interest and production continued to grow and in...

1969
Articles of Incorporation of the Nebraska Soybean Association were filed in Lincoln, Nebraska on March 14, 1969 – the Board of Directors consisted of seven members.

1975
Nebraska Soybean Development, Utilization and Marketing Board formed and administered by the Nebraska Department of Agriculture.

1979
Nebraska farmers are harvesting soybeans from 1.6 million acres, up 350,000 from 1978.

1980
China’s soybean purchases jumped from 5 million bushels in 1978-79 to 30 million bushels in 1979-1980.

1987
Nebraska SOYnews – Winter Quarter Issue was printed with soy ink for the first time. Soy Ink was developed in 1985 by the American Newspaper Publishers’ Association.

1990
The National Soybean Checkoff was created as part of the 1990 farm bill. This replaced LB 74 from 1975 creating a national checkoff where 50% of the funds were used by the national organization or United Soybean Board and the other 50% would be utilized by the Nebraska Soybean Development, Utilization and Marketing Board.

1991
Legislative bill 367 would increase the number of districts to eight with the at-large position making nine seats on the checkoff board.

1992
Soy Biodiesel introduced to Nebraska and marketing promotions begin.

1995
In the process of becoming a private, non-profit corporation, Nebraska Soybean Board (NSB) adopts its Article of Incorporation at an open meeting on June 19, 1995.

2007
The Soy Transportation Coalition was established to promote a cost effective, reliable, and competitive transportation system for the soybean industry.

2009
In continuing efforts to publicize the use of soybeans in our everyday life, NSB has sponsored soybean buses since 1994 working with Star Tran of Lincoln – the buses run on an B-20 blend of soy biodiesel.

Today
The uses for soybeans continues to grow, improving existing products and creating new ones that improve the quality of our lives.
NEMAHA COUNTY Soybean Farmer Appointed to Serve on United Soybean Board

Representing Nebraska as one of the newly appointed Farmer-Directors on the United Soybean Board (USB) will be Nemaha County soybean farmer, Mark Caspers of Auburn, NE.

U.S. Agriculture Secretary Tom Vilsack recently announced the appointment of 16 farmer-leaders and two alternates to the USB and soybean checkoff. All appointees will serve three-year terms beginning immediately and represent the interests of all U.S. soybean farmers.

USB is made up of 68 farmer-directors who oversee the investments of the soybean checkoff on behalf of all U.S. soybean farmers. Checkoff funds are invested in the areas of animal utilization, human utilization, industrial utilization, industry relations, market access and supply. As stipulated in the Soybean Promotion, Research and Consumer Information Act, USDA’s Agricultural Marketing Service has oversight responsibilities for USB and the soybean checkoff.

“This is a great opportunity to serve as a farmer-director on the United Soybean Board”, says Mark Caspers, “I know that the soybean has a multitude of uses and it is my top priority to promote increased demand for new uses of soybean products that have already been developed with the help of the soybean checkoff.”

Biotechnology Resource Added to Soybean Checkoff Web Site

New multimedia tool on www.unitedsoybean.org provides information on biotechnology

– United Soybean Board

A core responsibility of the United Soybean Board (USB) and the soybean checkoff is to inform U.S. farmers and all parts of the U.S. soybean chain how checkoff dollars are being spent. One key tool to disseminate checkoff information is the official Web site of the soybean checkoff – found at www.unitedsoybean.org. Constantly updated with new information and resources, this Web site strives to be a one-stop shop for soybean farmers and others involved or interested in agriculture.

A Biotechnology Library on www.unitedsoybean.org has recently been added to the “Programs” section. This resource provides references, facts and research on biotechnology, an important tool in helping U.S. farmers increase productivity.

The USB Biotechnology Library provides information on biotechnology related to food safety, animal agriculture, environmental effects and much more. Many of the documents can be found in various languages and can be selected by clicking on the corresponding flag graphic or choosing the language from a drop-down menu. This section also includes videos available for download such as an interview conducted last year with the late Nobel laureate and world-renowned agronomist Norman E. Borlaug, Ph.D. Studies on biotechnology, including one conducted by the Council for Agricultural Science and Technology about the sustainability of the various soybean production systems in the United States, can also be found on the library.

Biotechnology could be a critical tool to help farmers increase productivity to feed a growing world population. Through resources such as the online Biotechnology Library, the soybean checkoff will continue to facilitate understanding about the benefits of biotechnology in agriculture.
“NBB (National Biodiesel Board) couldn’t operate to its fullest potential without the vital support of the Nebraska Soybean Board,” said Joe Jobe (National Biodiesel Board, CEO). “As we fight to weather the current storm facing the biodiesel industry, support from the Nebraska Soybean Board and other QSSBs is more important than ever. We must face these challenges as a united front if we are to survive.”

Uncertainty was definitely in the air at the 2010 Biodiesel Conference and Expo held in Dallas, Texas in early February. As of press time, the U.S. Senate still had not acted on extension of the biodiesel tax credit which expired on December 31, 2009. In addition, the biodiesel industry is still anxiously awaiting the EPA ruling on RFS-2. The outcome of these two items will have far-reaching consequences for the biodiesel industry in 2010.

In the meantime, biodiesel production has virtually ground to a halt. Many plants have cut workers’ hours or laid them off while awaiting action on these two items. While the industry is currently in a holding pattern, 2010 could be a year of monumental change and recovery once the RFS-2 goes into effect.

Joe Jobe (NBB,CEO) predicted at last year’s biodiesel conference in San Francisco that the RFS-2, and specifically the treatment of indirect land use change analysis (ILUC), would be one of the most important factors impacting the biodiesel market moving forward. At that time, and continuing today, most of the “research” being published on ILUC was anything but real “science”. Biofuel opponents were shamelessly using the most unreasonable and unscientific assumptions to deliberately disadvantage biodiesel. Furthermore, negative and unbalanced media coverage has also discouraged some biodiesel champions.

With support from the Nebraska Soybean Board, NBB has invested significant resources to develop the real science and data necessary to introduce reason into the indirect land use change discussion. NBB has worked hard to reinforce biodiesel’s identity as a sustainable fuel and communicate its benefits to the public and key influencers. In addition, NBB has worked aggressively to rebut allegations that biodiesel will harm the world’s food supply or is not environmentally friendly.

Continued on next page...
NBB has also established a long-term effort to educate and develop relationships with individual reporters. This outreach includes reporters at some of the nation’s most prominent media outlets such as TIME Magazine, The New York Times, and the Washington Post.

By working closely with scientists who launched a campaign to encourage their peers to go on record in support of biodiesel, NBB has helped to increase their collective voice. By the end of FY09, more than 120 scientists had signed the endorsement of biodiesel, including several university deans. This effort has added credibility and third party support for the biodiesel.

The Nebraska Soybean Board continues to have a broad impact on all of the biodiesel industry’s top priorities. In addition to supporting the NBB’s sustainability initiatives, the Nebraska Soybean Board has devoted resources to a number of other invaluable projects such as Bioheat® heating fuel, communications, trucker education, among others.

Communications

In addition to the multiple communications campaigns related directly to the RFS-2 and sustainability, NBB engages in a number of other ongoing communications activities. Raising awareness, building confidence in biodiesel and promoting its benefits to a national audience is a core function of the NBB.

These efforts resulted in a survey that showed that overall, the public has a favorable view of biodiesel and its role in the future of American energy. In fact, a 2009 study found an almost 10-percent increase among those with a favorable opinion of biodiesel, from a similar study done the previous year. In addition, a wide majority of people surveyed across the country (96 percent) are aware of biodiesel. By comparison, in July 2008, 69 percent of consumers were aware of biodiesel.

NBB’s communications efforts ranged from reaching out to top fleet managers using biodiesel to urge them to consider the facts before making any decisions on biodiesel; to providing QSSB communications staff with template news releases and talking points throughout the year; to engaging in crisis communications when necessary. For example, NBB had to act quickly to reinforce the industry’s focus on safety after an explosion and fire at a biodiesel processing facility.

These efforts are in addition to ongoing media outreach and interviews; drafting and placement of articles and letters-to-the-editor; communications activities and media events at the NBB Conference and the preparation of important member communications such as the Daily News Clips, Member Minute and Biodiesel Bulletin.

Truck Fleet Education and Truck/Biodiesel Availability

The one question NBB hears from truckers most often is, “Where can I get biodiesel?” The Nebraska Soybean Board has helped NBB continue its effort to establish the...
most comprehensive and up to date truck stop data base in the industry. The BioTrucker.com website is designed specifically for truckers. In addition to providing an easy to navigate map of biodiesel availability nationwide, it includes numerous resources to educate truckers and fleet operators about the benefits of biodiesel.

Attending major trucking events and building relationships with organizations such as the National Association of Truck Stop Operators and truck media outlets like Sirius/XM Radio interviews have been key to increasing awareness of biodiesel throughout the truck industry. Another focus has been on developing a comprehensive case study library of truck fleets using biodiesel that can be shared with the truck industry through BioTrucker.com.

Bioheat® Heating Fuel

Bioheat heating oil continues to gain acceptance among fuel dealers and the public. As the first advancement in heating oil to hit the market in decades, NBB is working to capitalize on that fact and market the product widely. NBB has collaborated with the National Oil Heat Research Alliance (NORA) to develop an industry-wide vision to help fuel dealers market Bioheat. Through a combination of train-the-trainer programs, representation at industry association meetings, training webinars, tradeshow and conference participation and strategic advertising positioning, Bioheat use is increasing. NBB has followed a dual phase approach which includes support of the fuel dealers and education of consumers through promotion of www.bioheatonline.com.

2010 is poised to be a turning point in the biodiesel industry. NBB will continue to work to facilitate RFS-2 implementation. The RFS-2 has the potential to become a necessary backstop or safety net to provide stability from violent volatility to a fragile emerging industry.

Additionally, NBB’s top legislative priority remains passage of a longer-term extension and restructure of the biodiesel tax credit. The tax credit is the primary market driver for the biodiesel industry. The year 2008, with 700 million gallons of production, was a good example of how the tax credit was highly effective as a demand driver for the industry (without an RFS-2 in place). The year 2009, with crude prices dropping in half and biodiesel volumes dropping below 500 million gallons, was a good example of why we need both the tax credit and the RFS-2. The tax credit is the market driver and the RFS-2 is the safety net. This platform worked well for the ethanol industry under RFS-1.

Ongoing partnerships with key stakeholders like the Nebraska Soybean Board will be critical in achieving these goals. The progress that has been made to date would not have been possible without the support of the Nebraska soybean checkoff. The biodiesel industry’s 2010 agenda can be accomplished, but it will take continued teamwork. With so much at stake, momentum must be maintained in order for the industry to recover and ultimately realize its full potential.
The Nebraska Soybean Association (NSA) elected its 2010 officers and directors during their annual meeting held in Lincoln on December 2, 2009 at the Nebraska Ag Classic.

Scott Richert of Gresham, NE was elected as NSA President. Richert begins his first term as President and oversee the functions of the state organization. Richert, a LEAD 21 fellow, previously served as Vice President of NSA. Richert said “My goal is to continue to increase membership by communicating the value of belonging to the Nebraska Soybean Association.”

DeWitt, NE was re-elected to serve as Treasurer and he currently serves as the District 6 Director. Elected to serve as Secretary of NSA was Diane Becker of Madison, NE who represents an At-Large District. Debbie Borg of Allen, NE now serves as Chairman of the Association.

Elected to fill the District 5 Director position was Dennis Fujan of Prague. Beau Bearnes of Central City was elected to represent an At Large seat and elected to represent District 7 is Ken Boswell of Shickley.

This year’s recipient of the Nebraska Soybean Association Promoter Award was awarded to Mike Maranell with Ag Processing Inc. of Omaha, NE. Mike currently serves as the Senior Vice President of Corporate & Member Relations for AGP. He continually shows support of the mission and activities of the NE Soybean Association and understands the importance of developing effective leaders to lead the industry.

This award is presented annually to recognize and thank an individual who has shown outstanding leadership to the betterment of the soybean industry.

Soybean Association Elects Officers, Announces Award Recipient
The National Biodiesel Board recognized biodiesel champions at the annual “Eye on Biodiesel” awards presentation. The awards were presented at the National Biodiesel Conference & Expo, which wrapped up in Grapevine, Texas on February 10th. The Nebraska Soybean Association was among a group of winners to receive an award for their efforts with a biodiesel initiative. The Nebraska Soybean Association along with the Iowa and Minnesota Soybean Growers Associations received the “Eye on Biodiesel” awards in the Initiative category. NSA Chairman, Debbie Borg of Allen, was present to accept the award during the ceremony. When NBB issued a call to action for the biodiesel industry to submit comments to EPA on its proposed Renewable Fuels Standard rules, soybean farmers answered the call. These three organizations led the way for the biodiesel industry in submitting comments into the EPA. They alone generated more than a third of the 8,000 comments biodiesel supporters submitted regarding the proposed standard. The result demonstrated biodiesel's and the Renewable Fuel Standard's importance to a broad range of stakeholders.

The Nebraska Soybean Association garnered many of their comments during Husker Harvest Days held in Grand Island last September. “Grassroots efforts really helped to make a difference on this issue,” says Scott Richert (President, Nebraska Soybean Association). “Many of our farmer volunteers helped gather signatures which were submitted to EPA, that demonstrates the importance of this issue to our industry.” Other award winners included; Impact Award, Sysco Corporation; Inspiration Award, Wayne Hettler, St. Johns Public Schools, St. Johns, Michigan; Industry Partnership Award, The American Oil Chemists' Society; and Influence Award, Ramiro Lopez, City of Irving, Texas. “The biodiesel industry is blessed with many champions and true believers,” said Joe Jobe (NBB CEO). “Each of these winners has helped carry the biodiesel torch, fostering understanding, mentoring others and encouraging broader use of a cleaner burning, sustainable fuel.”
As the spring thaw arrives, it’s time to review maintenance practices of your bulk storage tanks. Routine maintenance of your fuel storage is the key to avoiding fuel related problems. Water accumulation in tanks can lead to many problems including corrosion and sediment build up in fuel systems, microbial growth and icing of filters/fuel lines when the temperatures drop below 32°F. Microbial growth occurs in the water/fuel interface and has become more prevalent since the introduction of ULSD. Sulfur was a natural antibiotic in fuel.

The first step to your tank maintenance program is to check your fill caps, spill containments, valves, roof seals and piping containment areas. Visually inspect your system to make sure that caps and seals close tightly, caps are covered and water is diverted. Rain that occurs during spring brings a greater risk of water getting into tanks. You also want to check the bottom of your tank for water by obtaining a tank bottom sample and putting it in a clear Mason jar. If the fuel is clear and bright your fuel is good. If it is hazy or worse, has a line of free water below the fuel, you need to remove the water. Be sure to remove the water before taking delivery of more fuel so that the water doesn’t get stirred up into the new fuel. If possible, check both ends of the tank, as water will settle to the lowest end. Make this a monthly practice.

**Housekeeping Tips to Help Reduce Water Contamination:**
- Monitor hoses, fill/vapor caps, gaskets for leaks.
- In the spring, check tanks for water concentration and microbial contamination.
- Check for water and sediment in tanks PRIOR to fuel delivery. Remove the water if any contaminants are found.
- When you get a fuel delivery, look at the fuel in a clear Mason jar to verify that the fuel is clear and bright.
- Always install a dispenser filter on a storage tank. If there are any issues with contaminants, the dispenser filter will plug but keep it from progressing to the vehicle tanks.
- Check fuel containment area for water regularly. Remove water when accumulated.
- Visually check tanks monthly for free water by obtaining a tank bottom sample.
Biodiesel blends are treated with fuel additives in the very same way and for many of the same reasons that straight #2 ULSD is treated with fuel additives. Both #2 ULSD and biodiesel have a shelf life of about 6 months to one year without a stability additive. A stability additive can increase the amount of time that fuel can be stored by 2-3 times than without additive. This is achieved by preventing oxidation due to storage and thermal degradation. When fuel oxidizes or degrades, sediments form which can cause filter plugging, fuel injector deposits, injector coking and corrosion. Water in fuel can lead to filter plugging, corrosion and microbial growth. There are additives that can help keep the water suspended and flowing in the fuel and those that can help shed the water. In the winter using a de-icer to break water into microscopic droplets and will prevent the droplets from joining together. The water is suspended and carried along in the fuel as droplets small enough to not damage injectors. This will prevent fuel line freeze up or filter plugging due to icing.

Cold temperatures require the use of fuel additives or blending #1 diesel fuel when utilizing straight #2 diesel and biodiesel blends. Biodiesel blends of 5% or less are considered the same as straight #2 diesel and typically do not require any special handling. Using higher biodiesel blends will require you to increase the normal treat rate of the fuel additives. WASA (Wax Anti-Setting Agent) is an important component to a winter additive package. WASA keeps the naturally occurring paraffins’ in diesel suspended in the fuel so that they don’t cause filter plugging. Without WASA, paraffin will appear at the fuel’s cloud point and drop to the bottom of the tank. Often times, paraffin is mistaken for a biodiesel related issue since it looks similar to monoglyceride dropout.

The one additive you don’t need when utilizing a biodiesel blend is a lubricity additive. Biodiesel blends as low as 2% provide all the lubricity protection needed to exceed the lubricity specification of diesel fuel and protect the life of fuel system equipment engine parts.
Demonstrating its commitment to developing new industrial and consumer products that contain U.S. soy, the United Soybean Board (USB) recently released its annual list of soy-based products that the soybean checkoff helped introduce this year. Thanks, in part, to support from the soybean checkoff, 26 new soy-based products hit the market in 2009.

USB’s New Uses program provides funding to scientists and industrial partners to research, develop and commercialize products containing soybeans. Nebraska farmer Mike Korth serves on the committee that oversees the checkoff’s investments in new soy-based product development and has seen the benefits of soy-based products first hand, using soy-based insulation on his own farm last year.

“The soybean checkoff’s New Uses program is all about developing new uses for soy and increasing demand for U.S. soybeans,” says Korth, a soybean, corn, alfalfa and rye farmer and cow/calf producer from Randolph, Nebraska. “Soybean farmers provide the perfect answer to the green movement going on around the country, with renewable and biodegradable soy-based products. Using soy to replace petroleum creates the green products that people want.”

The soybean checkoff directs its funding toward several categories, including adhesives, coatings, printing inks, lubricants, plastics, fibers and solvents.

Consumers can find some of this year’s new products, including a soy-based wood floor stain from Rust-Oleum, a line of Simmons mattresses that include soy-based foam, and a soy-based degreaser and adhesive remover available at retail outlets such as The Home Depot and Ace Hardware. Others, such as a soy-based adhesive used to manufacture plywood, a soy-based pavement crack sealant and soy-based bioremediation agents used in environmental cleanup, will mostly be noticed by industrial users.

While the products represent a diverse range of categories, they generally have two attributes in common: They’re sustainable and they boost demand for U.S. soy. The soybean checkoff works to advance the sustainability movement, in part, by developing and promoting soy-based products. Many of the projects the soybean checkoff funds led to products that use soybean oil as a replacement for petrochemicals, making them more renewable and more environmentally friendly than their non-soy-based counterparts. Statistics show the checkoff’s efforts to expand industrial demand for soybean oil work. By 2010, industrial use is expected to be between 1.15 and 1.35 billion pounds of soybean oil, or the oil from nearly 120 million bushels. That’s up from 80 million bushels used in 2008.

The list of new soy-based products represents an annual culmination of a three- to five-year process that began with researchers trying to persuade soybean checkoff farmer-leaders that their ideas held potential for increasing soy demand.
“The New Uses program is an important way to return value to soybean farmers,” says Korth. “We receive applications for a lot of products and evaluate the proposals for their feasibility and viability. We only fund the products with the potential to use the most bushels of soybeans and return value to farmers.”

The soybean checkoff’s industrial partners continue to produce an assortment of sustainable soy-based products without making an impact on the world’s food supply. The food industry uses 87 percent of the U.S. supply of soybean oil. Oil makes up just 18 percent of a soybean; the remainder consists of protein-rich meal. A USB study found that industrial demand for soybean oil for such things as bio-diesel and soy-based products increases the supply of soybean meal, which will be largely used to produce more food, not less.

USB is made up of 68 farmer-directors who oversee the investments of the soybean checkoff on behalf of all U.S. soybean farmers. Checkoff funds are invested in the areas of animal utilization, human utilization, industrial utilization, industry relations, market access and supply. As stipulated in the Soybean Promotion, Research and Consumer Information Act, USDA’s Agricultural Marketing Service has oversight responsibilities for USB and the soybean checkoff.

The new soy-based products introduced in 2009 as a result of soybean checkoff support are listed to the right.

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### PLASTICS

- **Soy Seal™** – soy-based canned insulating foams being sold at hardware stores, from BioBased Technologies
- **Polylite™ 31325-00** – unsaturated polyester resin for composites, from Reichhold Chemical
- **Renuva™** – soy-based Natural Oil Polyols used to make bedding foams for Simmons Bedding’s Natural Care Collection, from Dow Polyurethanes
- **SoyFoam™** – soy foam for seats/headrests/armrests in the 2010 Hyundai Santa Fe, Sonata sedan and the 2009 Kia Amanti sedan, from Lear. Lear will also supply General Motors with SoyFoam for its trucks and SUVs as well as Ford for the seats in the Mercury Milan and Lincoln MKE, from Lear
- **Honey Bee™** – soy-based polyols for use in Chromcraft molded-furniture seating foams, from MCPU Polymer Engineering
- **Ecoflex** – a mattress product line named Equilibrio Natural Ecoflex that uses foam based on Renuva Natural Oil Polyols in the comfort layers of the mattresses, from foam and mattress manufacturer Ecoflex
- **Green Comfort™** – sandals containing Renuva Natural Oil Polyols in the polyurethane sole, from shoe manufacturer Grupo Ravi and Wal-Mart

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### COATINGS/PRINTING INKS/ADHESIVES

- Hybrid industrial coating containing soy for wood and metal applications, from Sherwin-Williams
- **Varathane Nano Defence** – soy-based abrasion-resistant stain for wood floors, from Rust-Oleum
- **OSF Ecopure HPJ Soy** – soy-based sheetfed lithographic ink, from inX International
- **OSF EcoTech Process Inks** – soy-based sustainable lithographic ink system with low VOCs, from inX International
- **BioMG** – soy-based inks for digital printers used in OEM type inks, from inX International
- **Soyadh** – soy flour adhesive for use in wood panels, from H2H
- **Soythane™90** – 100 percent solids, multipurpose polyurethane adhesive based on soy polymers, from Bondaflex Technologies
- **Multibond MX100** – a one-component soy-based polyvinyl acetate adhesive for hardwood plywood, from Franklin International

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### SPECIALTY PRODUCTS

- **Soyanol™1000E** – soy methyl ester (SME)-based coalescing agent, from Soy Technologies
- **Soyanol™ 5000E** – SME-based coatings solvent, from Soy Technologies
- **Goof Off Citrus** – SME-based degreaser and adhesive remover, from WM Barr
- **Goof Off 2** – SME-based water rinsable degreaser, from WM Barr
- **F-500** – Bi-Solvent Cleaning System – SME-based parts cleaner, from Forward Technology
- **VOS™** – soy-based thixotropic gel for soil bioremediation, from EOS Remediation
- **LactOil™** – soy-based microemulsion for groundwater bioremediation, from JRW Bioremediation
- **CAP 18 MET™** – soy-based groundwater bioremediation product, from Carus Remediation
- **SoyGreen™ Wood Polish & Multi Surface Cleaner** – SME cleaner, from Soy Technologies
- **Soy Green™ Ultimate Graffiti Remover** – SME cleaner, from Soy Technologies
- **Seamseal™** – soy-based pavement crack sealant, from BioSpan Technologies
April is Soyfoods Month
Links to Soyfood Information and Recipes

Nebraska Soybean Board
www.nebraskasoybeans.org

Soybean.org
http://www.soybean.org/Soybean.org

Soy Connection
http://www.soyconnection.com

Soyfoods Association of North America
http://www.soyfoods.org/

The Soyfoods Council
http://www.thesoyfoodscouncil.com/

U.S. Soyfoods Directory
http://www.soyfoods.com/

Studies show there are many possible health benefits to a soy-enriched diet

Soy—a versatile ingredient
Soy—a powerful dose of protein

Great Taste
Great Health
The Nebraska Soybean Board promotes the health benefits of soy-based food products through the use of a consumer linkage program. The program, which is currently in its 13th year, started as a grassroots marketing program designed to increase product distribution at the retail level by promoting awareness of soy products; educating the public regarding the health benefits of a high soy protein diet; and encouraging consumers to ask for soy foods at their local grocery stores. The success of the program is achieved through the use of the “Bean Team”, limited mass media advertising, and special events.

Demonstrations in Nebraska grocery stores are conducted by the “Bean Team.” The team is a trained group of young adults who provide consumers with information about the health benefits of soy, distribute samples of soyfoods and share recipes with consumers. The in-store demonstrations are conducted from January through April and provide consumers practical examples of how to introduce soy-based products into their diet.

Soyfoods are an important part of a healthy diet and fit into the USDA’s food pyramid. Most soyfoods contain no cholesterol, little or no saturated fat, high quality protein, and dietary fiber. Many soyfoods also provide essential vitamins and minerals; including A, B, and D vitamins, calcium, iron and potassium.

Research studies conducted by leading health and educational institutions indicate people who frequently consume soyfoods tend to have reduced risks of osteoporosis, kidney disease and lower rates of many types of cancer. The research shows that as little as one serving of soyfoods every day may reduce the risk of certain types of cancer by as much as 40 percent to 50 percent. Soyfoods, especially soy protein, may also help control diabetes.

The Food and Drug Administration (FDA) announced that foods containing soy protein may reduce the risk of coronary heart disease. The health claim is based on the FDA’s determination that 25 grams of soy protein per day, as part of a diet low in saturated fat and cholesterol, may reduce the risk of heart disease by reducing cholesterol levels. Soybeans also naturally contain isoflavones that have begun to show promise in relieving menopausal symptoms, such as hot flashes, maintaining healthy bones, and preventing prostate, breast, and colorectal cancer.

The Nebraska Soybean Board has seen significant increases in awareness and consumption of soyfoods in the Nebraska market over the last twelve years of the consumer linkage program.
Did you know that soy is a high-quality protein, rich in vitamins and minerals? A diet that incorporates 2-3 servings of soy daily – along with lean meats, whole grains and plenty of fresh fruits and vegetables – makes it easy to reap the benefits.

For the past 15 years, soyfoods have attracted the attention of scientific researchers. Their findings suggest soyfoods may reduce the risk of heart disease, osteoporosis and certain cancers, and may help alleviate menopausal symptoms. The American Institute for Cancer Research, the American Heart Association and the U.S. Food and Drug Administration recognize specific benefits of soyfoods.

Everyday Wellness

Soyfoods are typically low in saturated (bad) fat and high in polyunsaturated (good) fat. The protein content gives a sense of fullness that may help with weight management.

Heart Health

As part of a daily diet, soyfoods may promote heart health. Soy protein directly lowers blood cholesterol levels. Soy is also one of few sources of heart-healthy omega-3 fatty acids, and has been shown to modestly raise HDL (good) cholesterol; lower blood levels of triglycerides, the chemical form in which most fat exists in food and in the body; make LDL (bad) cholesterol less atherogenic (meaning, less likely to build up and thicken artery walls); and directly improve the health of coronary arteries. Finally, soybean oil, while not containing soy protein, is a heart-smart choice for salad and cooking oil because it too is relatively low in the bad fats and high in the good fats.

Women’s Health

The Journal of the American Medical Association (JAMA) recently published a study that found soyfood consumption is significantly linked to a decreased risk of death and cancer recurrence among breast cancer patients. Evidence also suggests that eating soy during childhood and adolescence may help girls prevent breast cancer later in life. Breast cancer is the most common type of cancer among U.S. women.

Many of soy’s benefits may result from isoflavones, a naturally-occurring compound in soy with mild estrogen-like effects. Soy isoflavones may help women during menopause – from alleviating hot flashes, a finding supported by more than fifty clinical trials – to preventing bone loss and osteoporosis. Soymilk is often fortified with calcium for additional bone protection.

Men’s Health

Soy is beneficial for men as well. Studies suggest that men who eat soyfoods regularly are less likely to develop prostate cancer, the most common type of cancer among U.S. men, than those who don’t consume soy.

Making soy a part of everyday meals is simple. From soynuts to soymilk, soybeans to soybean oil, there are many ways to add soy to a healthy diet.

- Add soft tofu to your smoothies
- Splash soymilk in your coffee
- Mix soynuts into trail mix for an on-the-go snack
- Enjoy edamame as an appetizer
- Stir-fry lean meats, tofu and vegetables in soybean oil

Find more information and recipe suggestions from the United Soybean Board, at SoyConnection.com.
Soybean producers recently underwrote an aggressive U.S. Meat Export Federation (USMEF) marketing initiative in an effort to help improve the economic outlook for one of their most valuable customers, the U.S. pork industry.

With pork supplies mounting in cold storage and hog prices stuck below break-even levels, soybean organizations from Nebraska, Minnesota and South Dakota, as well as the United Soybean Board, stepped up to the plate last fall with an additional $1.35 million in checkoff funding to support USMEF’s pork marketing campaigns in Japan, Mexico and South Korea. The purchasing power of the $1.35 million soybean industry investment will actually approach $4 million, because USMEF is able to use these funds to leverage support from the USDA Market Access Program and other non-checkoff sources.

While the final results of the soybean industry’s “pork stimulus package” will not be known for some time, the three key markets targeted hold terrific potential for U.S. pork. Japan and Mexico solidified their positions as the leading markets for U.S. pork exports in 2009, with Japan nearly matching its all-time single-market value record of $1.54 billion, and exports to Mexico easily setting new records for both volume (1.11 billion pounds) and value ($764 million). Korea ranked sixth at $216 million, but offers considerable potential for growth.

“Our primary focus right now is to support our No. 1 customer, which is animal agriculture,” said Loyd Pointer (Chairman of the Nebraska Soybean Board’s Domestic Marketing Committee, Sargent, Nebraska). “That’s what it really boils down to — keeping the pork industry profitable so that we have a strong market for our product. It’s a little too early to gauge the results, but we’re optimistic that this effort is helping the pork industry improve its export numbers.”
Nearly 2,000 miles from Saunders County, Nebraska, soy protein is helping Guatemalan foster children feel like running and playing. Nebraskans have made a difference for these girls through the World Soy Foundation, and a unique soy processing machine, called a SoyCow.

Nebraska soybean growers, Mark Caspers of Auburn, Dennis Fujan of Prague, Bill Kremlacek of Wahoo, as well as Keith Glewen, University of Nebraska Extension Educator located in Saunders County traveled with the World Soy Foundation in January. The trip allowed them to meet the children and see how soy can make a lasting difference.

“The World Soy Foundation applauds the leadership of Nebraska soybean growers and their organizations that made it possible for the World Soy Foundation to work with our partners in Guatemala,” said World Soy Foundation Executive Director Nathan Ruby. “Thanks to these combined efforts, the girls receive soyfoods to improve their diets and much more. They are also getting nutrition training. Older girls are learning business skills through the sales and marketing of the extra foods produced by the SoyCow.”

Saunders County soybean growers raised nearly $8,000, primarily from individual farmer contributions, to purchase and install a SoyCow. Nebraska Soybean Association helped kick start their campaign with a $200 check to the World Soy Foundation. The Nebraska Soybean Checkoff Board contributed more than $6,000 in the form of a shipment of soybeans to Guatemala, as well as provided airfare for grower leaders to visit the project and see other soy-related efforts in Guatemala.

These Nebraskans aided the World Soy Foundation in work with the Fundaninas nonprofit in Guatemala to get the soy protein program running in 2009. A Guatemalan-based charity Fundacion Juan Bautista Gutierrez also contributed $2,500.

“The Guatemalan economy is currently predominantly of a subsistence nature, but being able to properly nourish the children will provide the next generation with the good minds and strong bodies needed to broaden the country’s economic base,” says Mark Caspers.

“We were looking for something that will help the children’s health and well being,” says Dennis Fujan. “This trip gave us a handle on what soy protein can do for them. You see kids running around having a good time and enjoying life.”

Bill Kremlacek calls the experience “eye-opening” and supports additional farmers being able to also go to Guatemala. “Farmers like to look back on their day and see what they accomplished. This trip allowed us to see the results. It was like a receipt for our contribution.”

“This trip was the first time for me to witness the impact poverty has on diet and malnutrition,” said Keith Glewen. “Many of us in the Midwest live in a bubble. I now have a better understanding of the complexity of addressing this problem. I also have a deeper appreciation for individuals, the corporate world and governments for their efforts to correct problems associated with malnutrition.”

Guatemala has the fourth highest rate of chronic malnutrition in the world and the highest in Latin America, currently half of children under age 5. A drought is making malnutrition even more widespread in Guatemala this year, according to U.S. Embassy staff who briefed the farmers.

Nebraska soybean growers and their peers across the nation were instrumental in creation of the World Soy Foundation, a 501c3 charitable organization headquartered at the American Soybean Association.

A SoyCow is a processing system that can grind and cook whole soybeans into soymilk, from which beverages, soya “cheese” (tofu), yogurt and other soy foods can be made. One pound of dry soybeans makes approximately one gallon of soymilk or yogurt. The World Soy Foundation has funded some of the work done by the World Initiative for Soy in Human Health (WISHH) and the National Soybean Research Laboratory at the University of Illinois in multiple developing countries that use the SoyCows to produce foods for orphanages and still have food available to sell, making the operations economically sustainable.
For long-term profitability, Nebraska farmers need to determine if they have SCN because many fields are planted to susceptible varieties,” Giesler continues. “In most SCN-infested fields in Nebraska, females are evident on roots around July 4,” says Giesler. “However, the absence of cysts on the roots does not mean a field is free of SCN.” In fields with a low population, very few cysts may be found on the roots and they may be easy to miss by visual observation.

According to Iowa State University nematologist Greg Tylka, “Low levels of SCN may not produce visible aboveground symptoms, yet yields may be reduced. High SCN levels typically cause plant stunting and yellowing.”

Giesler agrees and states that, “Aboveground symptoms can be confused with damage from compaction, nutrient deficiencies, drought stress, low-lying wet areas, herbicide injury, and other plant diseases.” Circular to oval areas of stunted, yellowed plants can be observed. Areas of SCN injury are typically elongated in the direction of tillage practices, since the cysts are spread by tillage equipment.

As head of a multi-state SCN education project funded by the North Central Soybean Research Program, Giesler and his colleagues are helping soybean farmers around the Midwest diagnose and manage their SCN problems. This group of experts reached out to 11,000 farmers and crop consultants in 2009 delivering the message that SCN is a problem, but it can be managed.

The Nebraska Soybean Board and the University of Nebraska-Lincoln have partnered to help soybean farmers identify fields that have SCN. “It has been estimated that Nebraska farmers are losing $25 million a year due to SCN,” says Giesler. The Nebraska Soybean Board has announced that they will pay for the analysis of soil samples to determine the presence of SCN.

Sample bags and analysis of soil samples for the presence of SCN are available to producers at no cost. For free sample bags, contact your local University of Nebraska-Lincoln County Extension office or Loren Giesler, lgiesler1@unl.edu, at (402) 472-2559.

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600 MILES OF SNOW AND ICE.  
1 FIFTEEN-MINUTE BREAK.

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Soy biodiesel, brought to you with the help of soybean farmers and their checkoff, isn’t just another biofuel. It’s fuel made better. Because soy biodiesel is made from a premium feedstock grown and refined right here in the United States, it is able to deliver a renewable, homegrown alternative to traditional diesel fuel while not sacrificing on performance. In fact, a B2 blend of soy biodiesel can actually improve fuel lubricity by up to 66 percent and extend engine life by preventing premature wear and tear.