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## Implications of the 2002 U.S. Farm Act for World Agriculture

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## IMPLICATIONS OF THE 2002 U.S. FARM ACT FOR WORLD AGRICULTURE

### John R. Kruse

The purpose of this paper is to discuss the implications of the Farm Security and Rural Investment Act (FSRIA) of 2002 for U.S. agriculture and its subsequent impact on world agricultural prices and world trade. In order to effectively illustrate the implications of the 2002 Act it is important to consider it in the context of the changes already made in previous farm acts. As the paper develops, many of the changes in U.S. cropping patterns were already captured by the policy changes occurring under the 1996 Federal Agricultural Improvement and Reform (FAIR) Act. The estimated impact of the 2002 Act on commodity production is minimal and, therefore, estimated price changes are relatively small. In the conclusions is a discussion on how trends in U.S. farm policy tend to reflect international agricultural policy, an important observation as World Trade Organization (WTO) negotiations are anticipated.

Policy changes in the 2002 Act are discussed in detail followed by a description of how the policy instruments are incorporated in the Food and Agricultural Policy Research Institute's (FAPRI) U.S. crops model. Implications of the policy changes for the 2002 Act are discussed relative to a continuation of the FAIR Act. A brief review of the possible implications for longer-term trade, production, consumption, and prices are also included. Finally, some observations are included that trace the evolution of U.S. farm programs, especially the trend toward designs in the European Union.

## **Policy Development Process**

The U.S. farm policy environment is shaped as much or more by current events as the goals purported to be accomplished. To see this we have but to look at the FAIR Act. In 1995, with high commodity prices driven by record levels of imports, many analysts began discussing new "price plateaus" and "demand driven" agriculture. Bolstered by rising per capita incomes and emerging middle classes, many of the Asian markets appeared to be strong growing markets for U.S. agricultural exports. The high levels of optimism for agricultural exports and relatively high agricultural prices led policy makers to formulate a 1996 farm bill that clearly marked a path for reduced U.S. agricultural subsidies. Target prices and counter cyclical deficiency payments were replaced with declining fixed transition payments base on historical acreages and yields. Set asides and other annual forms of supply control were eliminated although the long-term conservation reserve program was maintained and expanded. Loan rates continued, but many analysts considered them irrelevant because they were set at such low levels relative to current price levels. The relevant subsidies appeared to be fully decoupled and very WTO friendly.

Unfortunately, only a few years into the 1996 farm bill export growth stagnated and agricultural commodity prices began plummeting. The farm sector immediately called for "safety net" protection from low prices and the U.S. Congress passed four years of sequential disaster assistance legislation to supplement the declining transition payments. When the 2002 farm bill debate began in early 2001, the emphasis switched from phasing out subsidies to once again providing a safety net to U.S. farmers. It is also important to

note that this debate began in a period of U.S. budget surpluses. Interestingly, the debate began with how much additional money would be spent on agriculture over and above what would be spent under a continuation of the 1996 FAIR Act. \$73.5 billion in additional agricultural spending to be allocated over the 2002 to 2011 period emerged as a target for the new policy proposals. Subsequently, the House and Senate policy proposals were designed to spend as close to this spending limit as possible.

The 2002 farm bill proposals from the House and Senate agricultural committees were a hybrid of the 1990 and 1996 Acts. As in the 1990 farm bill, both proposed bills included the reestablishment of target prices and a quasi-deficiency payment referred to as "countercyclical payments." However, like the 1996 Act, both proposals carried the flavor of decoupled payments by using a historical production base rather than current production to establish countercyclical payments and fixed payments similar to transition payments. In addition, neither of the bills contained any restrictions on which crop could be planted, nor any annual set aside nor annual supply controls. New to the 2002 farm bill proposals was the inclusion of soybeans and peanuts as program crops, the option to update historical cropping bases, and, in the Senate proposal, the option to update program yields. Loan rates were increased for many of the crops, with the major exception of soybeans. The resulting Farm Security and Rural Investment Act of 2002 reflected all of these ideas with all but the loan rate changes decoupled from production.

## Changes in the 2002 Farm Bill

In May 2002, FSRIA became law. As discussed above, it brought back a number of old policy provision from the two previous farm bills while introducing a few new concepts. The discussion of these changes focuses on those policies which "couple" subsidies directly with current production and those that are "decoupled" from current production. In addition, a brief description of the U.S. National Dairy Program has been included.

## **Coupled subsidies**

As a carryover from the two previous farm acts, loan deficiency payments are the only remaining U.S. policy mechanism tied directly to current production. There are actually two ways for producers to profit from the marketing loans. This occurs because of the way the program is administered. The straight forward way is the standard loan deficiency payments that is calculated as the difference between the local market price on the day the producer chooses to get his loan deficiency payment and the loan rate. Of course, this payment applies to every bushel produced. Note that the producer does not have to sell his crop on that day. The second indirect way to make money is to then hold the crop until the post-harvest season and sell it for a higher price. This indirect profit is called a marketing loan gain. In the past 3 years, marketing loan gains for corn have averaged \$0.20 per bushel. Table 1 illustrates the new loan rates effective under FSRI relative to the loan rates under the FAIR Act. With the exception of soybeans, all loans are either higher or at least at the same level. As this paper discusses later, under FSRIA it is primarily the lowering of the soybean loan rate that causes the greatest shift in acres from soybeans to other crops.

Table 1. Comparison of loan rates

|          |                  | 2002 Fa      | arm Bill |
|----------|------------------|--------------|----------|
|          | FAIR Act         | 2002-03      | 2004-07  |
|          | Maximums         |              |          |
|          |                  | (U.S. \$/bu) |          |
| Corn     | \$1.89           | \$1.98       | \$1.95   |
| Wheat    | 2.58             | 2.80         | 2.75     |
| Soybeans | 5.26             | 5.00         | 5.00     |
| Sorghum  | Relative to corn | 1.98         | 1.95     |
| Cotton   | 0.5192           | 0.52         | 0.52     |
| Rice     | 6.50             | 6.50         | 6.50     |

## **Decoupled subsidies**

Under the 1996 FAIR Act, one fixed decoupled subsidy was paid to producers based on historical production. Different terms have been used to reflect these payments including production flexibility contract payments (PFC payments), transition payments (AMTA payments), and/or direct payments. The fixed payment rates declined over the course of the FAIR Act, ultimately falling to the levels presented in Table 2. Under FSRIA these fixed payments were increased slightly for all crops and a payment was added for soybeans. While these payment rates may appear to provide production incentives, they are based on 85 percent of the producer's historical base acres and historical program yields. Regardless of the mix of crops a producer does or doesn't plant, they receive the fixed payment rate based on their historical base acres and program yields. For the purpose of calculating total fixed payments under FSRIA, producers have been given the option to update their base acres from those under the FAIR Act to the average of the acres planted and considered planted over the 1998 to 2001 period. Depending on the crop mix and historical crop base, updating crop bases may or may not be attractive to all producers. Fixed payment yields were frozen under the 2002 Act and cannot be updated

from levels implied in the FAIR Act. Since soybeans were not previously a program crop, 78 percent of the 1998 to 2001 average farm soybean yield is used as the program yield.

Table 2. Comparison of fixed payment rates

|          | FAIR Act | 2002 Farm Bill |
|----------|----------|----------------|
|          | (U.S     | . \$/bu)       |
| Corn     | \$0.26   | \$0.28         |
| Wheat    | 0.46     | 0.52           |
| Soybeans | 0.00     | 0.44           |
| Sorghum  | 0.31     | 0.35           |
| Cotton   | 0.0572   | 0.0667         |
| Rice     | 2.05     | 2.35           |

The new payment introduced under FSRIA is the countercyclical payment (CCP). CCPs are similar to the old deficiency payment system with two important differences.

First, CCPs are based on 85 percent of a farm's historical crop base instead of current production. Second CCPs are also reduced by the amount of the fixed payment discussed above. The CCPs require the reestablishment of target prices that were abolished in the FAIR Act. Table 3 presents a comparison of the new target prices with those from the 1990 Farm Act. The countercyclical payment rate is calculated as the target price less the fixed payment less the maximum of the loan rate or the season average farm price.

Despite which crop the producer grows, CCPs are paid on historical production instead of current production. As in the case of fixed payments, producers have the option to update their historical crop base to the 1998 to 2001 period average of planted and considered planted area. If they update their base acreage, they also have the option of updating their program yields to the 1998 to 2001 period average.

Table 3. Comparison of target prices

|          |                      | 2002 Fa      | arm Bill |
|----------|----------------------|--------------|----------|
|          | FAIR Act<br>Maximums | 2002-03      | 2004-07  |
|          |                      | (U.S. \$/bu) |          |
| Corn     | \$2.75               | \$2.60       | \$2.63   |
| Wheat    | 4.00                 | 3.86         | 3.92     |
| Soybeans |                      | 5.80         | 5.80     |
| Sorghum  | 2.61                 | 2.54         | 2.57     |
| Cotton   | 0.729                | 0.724        | 0.724    |
| Rice     | 10.7                 | 10.50        | 10.50    |

Figure 1 brings these concepts together in an illustration for the wheat market in 2002.

The amount of payments the wheat producer receives depends upon where the season average farm price falls. For example, suppose the season average wheat

price is \$2.70 per bushel.

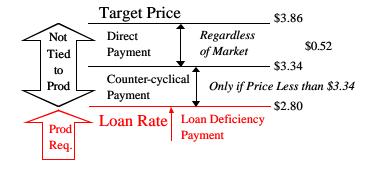


Figure 1. Stucture of Wheat Payments

metric ton). The producer will receive a loan deficiency payment equal to the difference between the loan rate and the season average farm price, or \$0.10 per bushel in this example. In addition, the producer will get the maximum countercyclical payment, \$0.54 per bushel, as well as the direct payment of \$0.52 per bushel. But remember that the

The loan rate for wheat in the 2002/03 marketing year is \$2.80 per bushel (\$102.88 per

direct and the countercyclical payments are based on a portion of the historical production base as determined by the producer's base area, program yields, and countercyclical yield selection.

## The CRP program

Another important change in the 2002 Farm Act was the expansion of the Conservation Reserve Program (CRP). The 2002 Farm Act expands the CRP cap from 36.4 million to 39.2 million acres.

## The National Dairy Program

The 2002 FSRI Act also added a short-term subsidy to the U.S. dairy industry. The Act establishes a three and one-half year National Dairy Program to subsidize milk production. Milk subsides are based on 45 percent of the difference between \$16.94 and the Boston Class I price. Milk producers can receive payments on up to 2.4 million pounds of production for an operation annually. The National Dairy Program ends in September 2005.

## **FAPRI Policy Modeling Framework**

Analysis of the U.S. farm policy is now broken into two distinct but interdependent processes. In the traditional manner, a ten-year deterministic baseline forecast is developed incorporating the various agricultural policies and specific macro economic assumptions supplied by Global Insight, Inc., and assuming average weather. The second process, stochastic analysis, involves the simulation of the baseline under 500 alternative forecasts of the random supply and demand factors. Each of the forecasts represents a random draw from the distributions of the random supply and demand factors. Variance-covariance matrices are used to make a draw consistent within the random supply and

demand factors. Implications of the stochastic analysis are particularly important for calculation of government cost. While loan deficiency payments are made during low price simulations, government payments are not made during periods of high prices.

Therefore, government payments are much higher on average from the stochastic runs.

The FAPRI system of econometric models is a simultaneous, non-spatial, partial equilibrium system designed for the purpose of policy analysis. The intricate details of the entire model are beyond the scope of this paper, but a brief discussion of the macro view of the model and specifics relating to U.S. policy are discussed in the paragraphs that follow. The broad framework of the FAPRI global agricultural modeling system is depicted in Figures 2 and 3. Figure 2 conceptualizes the basic structural model for the United States, which can be extended to any country with a few small adjustments. The top half of Figure 2 is simplified representation of the livestock sector, while the bottom half reflects the crops sector. The left half of Figure 2 represents demand variables and the right side of the diagram contains the supply variables. The macroeconomic variables driving this system include population, income growth, and input costs as well as technology and policy. For example, suppose an increase in income occurs. Positive income elasticities in the meat sector imply increased demand for meat, which increases meat prices and provides addition production incentives. Increased meat production increases feed demand in the crops sector. Depending on the income elasticity for the crop in question, food demand may also increase in the crops sector. Strong demand for crop inputs increases crop prices and provides incentives to expand crop production.

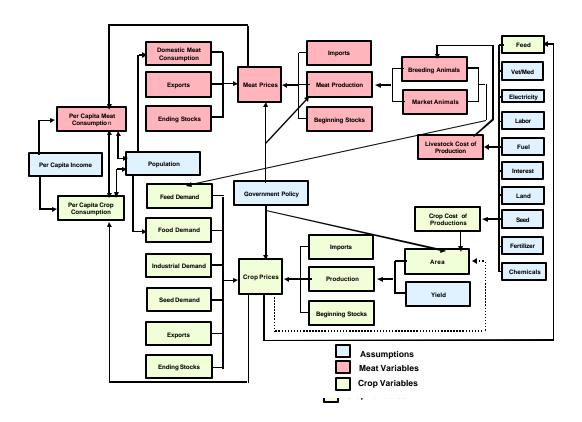


Figure 2 U.S. Country Model Flow Diagram

Figure 3 illustrates the simultaneous process within and across the country models that determines the net trade position within each country and the level of "world" prices. Typically, a large exporting country with minimal trade barriers is chosen as the residual supplier of a particular commodity. In the case of corn, the residual supplier is the United States, while Thailand serves as the residual supplier for rice. The iterative process to find a simultaneous solution begins with an assumed net export path within the residual supplier. This assumption generates a set of prices within the exporting country that is limited by transportation costs, trade barriers, and exchange rates to form a representative import price for a given country. In some countries, import tariffs are high enough that

the world prices have no impact on domestic prices. In this situation, the effective import quota is used as the net trade path and the internal prices are simultaneously determined within the country's own supply and demand framework. India has traditionally been a good example of a country where, due to trade restrictions, internal prices are fairly insulated from world prices. For other countries with some degree of price transmission, the respective import price is used to determine the local supply and demand within the country and the market clearing identity determines net trade. This process is repeated across all of the countries in the model system until a new ret export position is derived for the residual supplier. Several iterations occur to determined prices that balance world trade.

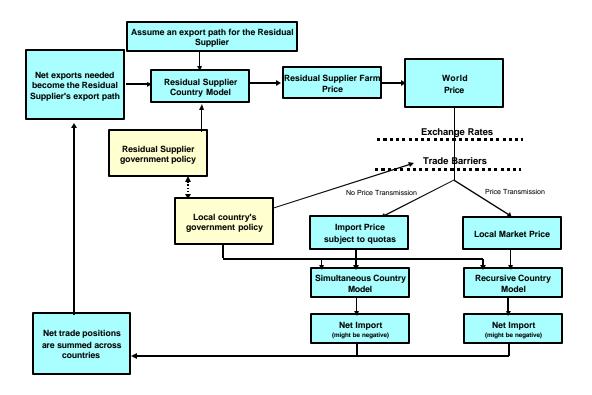


Figure 3 Iterative Process to Determine Global Equilibrium

Keeping in mind the big picture, the intricacies of modeling the 2002 U.S. farm policy changes can now be discussed. The coupled payments, loan deficiency payments in the U.S. case, are directly included in the crop specific U.S. acreage equations. In the FAPRI U.S. agricultural model, individual crop acreage equations are specified as a function of the expected net returns for the crop and expected net returns of competing crops. Expected net returns are calculated using naive price expectations. More formally, these equations are specified as:

$$\text{Area Planted}_{i} = f \left( \frac{\text{E(Net Returns}_{i})}{\text{Deflator}}, \frac{\text{E(Net Returns}_{c})}{\text{Deflator}}, \frac{\text{E(Net Returns}_{c+1})}{\text{Deflator}}, \frac{\text{E(Net Returns}_{c+1})}{\text{Deflator}}, \frac{\text{E(Net Returns}_{c+1})}{\text{Deflator}}, \frac{\text{De-Coupled Payments}}{\text{Deflator}} \right)$$

where

$$E(\text{Net Returns}_{k}) = \frac{(\text{Max}(\text{Farm Price}_{k,(t-1)}, \text{Loan Rate}_{k,t}) * \text{Trend Yield}_{k} - \text{Variable Cost of Production}_{k}))}{\text{Deflator}}$$

Options under the 2002 Act complicating analysis involved the sequence of first updating base acreage and, given that decision, the option to update program yields. While it might seem that all producers would take advantage of higher yields, some producers with large historical bases in crops such as cotton and/or rice may not wish to update their bases because their recent plantings of cotton and rice are considerably lower. Subsequently, the gain from higher countercyclical program yields is more than offset by the loss in government payments due to a reduction in base acres. Since the decision would be unique to each producer, FAPRI ultimately evaluated the decision to update base area and subsequently update CCP yields at the county level and then reconstructed state and regional base acres and CCP yields based on those decision. Not surprisingly, counties

with large historical bases of cotton and rice generally tended to maintain base area as defined under the 1996 FAIR Act.

As the specification above suggests, the inclusion of the decoupled payments in the FAPRI models is an ad-hoc process. Other researchers (Miranda, et al. 1994) have incorporated decoupled payments by specifying a total acreage equation for all crops as a function of expected revenues including decoupled payments and then estimating share equations for each crop. The timing and relatively few observations prevented FAPRI from attempting this approach directly.

The initial ad hoc approach developed at FAPRI to include decoupled payments was created by looking at how acreage responded to higher net returns historically. Table 4 presents a matrix of deflated expected net return coefficients used in the model. By summing all of the coefficients in the model one can calculate an acreage expansion coefficient. In the case of the of the 2002 Farm Act analysis as measured off the 2001

Table 4. Matrix of Coefficients on Deflated Expected Net Returns

|               | Barley | Corn   | Cotton | Oats   | Rice   | Soybeans | Soybeans | Sorghum | Sunflowers | Wheat  | Total  |
|---------------|--------|--------|--------|--------|--------|----------|----------|---------|------------|--------|--------|
|               |        |        |        |        |        | (SgI)    | (Dbl)    |         |            | (SgI)  |        |
| Barley        | 2.800  | -0.287 | -0.028 | -0.084 | -0.018 | -0.250   | -0.009   | -0.014  | -0.073     | -1.000 | 1.037  |
| Corn          | -0.573 | 11.577 | -0.303 | -0.693 | -0.063 | -5.877   | -0.422   | -0.609  | -0.263     | -2.700 | 0.075  |
| Cotton        | -0.037 | -0.577 | 2.505  | -0.028 | -0.070 | -0.776   | -0.235   | -0.355  | 0.000      | -0.397 | 0.030  |
| Oats          | -0.056 | -0.257 | -0.008 | 2.100  | -0.002 | -0.152   | -0.011   | -0.014  | -0.019     | -0.700 | 0.879  |
| Rice          | -0.014 | -0.058 | -0.054 | -0.002 | 0.400  | -0.051   | -0.059   | -0.037  | 0.000      | -0.120 | 0.004  |
| Soybeans(Sgl) | -0.503 | -5.804 | -0.331 | -0.544 | -0.118 | 11.596   | -0.412   | -0.420  | -0.224     | -3.020 | 0.218  |
| Soybeans(Dbl) | -0.011 | -0.425 | -0.103 | -0.018 | -0.045 | -0.468   | 1.405    | -0.025  | 0.000      | -0.144 | 0.166  |
| Sorghum       | -0.014 | -0.502 | -0.107 | -0.043 | -0.022 | -0.231   | -0.016   | 3.742   | -0.035     | -1.294 | 1.478  |
| Sunflowers    | -0.148 | -0.166 | 0.000  | -0.059 | 0.000  | -0.100   | 0.000    | -0.022  | 1.455      | -0.512 | 0.448  |
| Wheat (SgI)   | -1.289 | -3.147 | -0.420 | -0.600 | -0.053 | -1.629   | -0.057   | -1.051  | -0.522     | 19.212 | 10.443 |
|               |        |        |        |        |        |          |          |         |            | Total  | 14.778 |

FAPRI stochastic baseline, the acreage expansion coefficient was 14.778. This coefficient, multiplied by the so-called "Decoupled Scaling Factor" and the average real

decoupled payment per acre produced the total acreage effect. The total acreage effect was allocated to the relevant crops in the region using the crop's 1999-2000 historical acreage share. This process may be better understood with an example. Utilizing the coefficients from FAPRI's acreage equations in Table 4, the acreage expansion coefficient was 14.778. Simply based on judgment, FAPRI chose a decoupled scaling factor of 0.4 for the FSRI stochastic policy scenarios. Since 500 different scenarios were run for the stochastic process, there were 500 different observations of total decoupled payments. Choose one of the scenarios, the decoupled payments for corn were projected to average \$20.68 per acre in 2002 while the deflator in 2002 to was projected to be 117.95. Subsequently, due to the de-coupled payments, the total expansion in acreage is expected to be 1.037 million acres in 2002. This acreage is then allocated to the crops using their historical shares as a guide.

Clearly, the impacts of the decoupled payments are conditional upon the coefficient matrix of deflated expected net returns and the decoupled scaling factor. The fixed payments from the 1996 farm bill provide some guidance for setting these factors; however, they may need to be adjusted as producers' responsiveness unfolds in years to come. With FAPRI's January 2003 stochastic baseline, both the matrix of coefficients on deflated expected net returns and the decoupled scaling factor were adjusted. Using pooled data over the 1996 to 2001 period, better estimates of the regional acreage expansion coefficients were derived and a greater degree of symmetry was imposed on the matrix of coefficients. The decoupled scaling factors were also changed. Instead of using a decoupled scaling factor of 0.40 for all decoupled payments, in the March 2003

stochastic baseline FAPRI imposed a 0.25 scaling factor for the countercyclical payments and an additional scaling factor of 0.25 for all decoupled payments. This effectively makes the effect of countercyclical payments double that of a fixed (direct) payment. The adjustments appear to be more consistent with recent acreage responses including the March 31 2003 "Planting Intentions" report released by USDA.

## **CRP** adjustments

The additional acreage assumed to be bid into the CRP does take some acreage out of production although the relationship is not assumed to be 1 for 1. The slippage factor used in the 2002 Farm Act analysis was 80 percent, meaning that for every acre put into CRP 0.2 acres were take out of total arable area. In addition, FAPRI projects that the CRP program will only rise from 33.5 million acres in 2001 to 36.2 million acres in 2011, 3 million acres short of the cap. However, the additional acres bid into the program slightly reduce the acreage expansion that would have otherwise occurred under the FSRI Act.

## Implications of the FSRI Act for World Agriculture

The FAPRI March 2001 baseline was the last baseline forecast that included a straight extension of the 1996 farm bill with no continuation of ad hoc emergency, "double AMTA," payments. The stochastic means from the March 2001 baseline were compared with the stochastic means resulting from the implementation of the FSRI Act and these

results are presented in Tables 5 through 8. As Table 5 suggests, the acreage and price implications are minimal. All crops, with the exception of soybeans, experience a slight increase in area. The reduction in soybean loan rates is the driver behind the decline in soybean area planted. On average, total area planted to the nine major crops increases by only 1.03 million acres. Subsequently, with the exception of soybeans, U.S. crop prices fall very slightly, averaging 3 to 5 cents lower per bushel across the commodities in Table 5. Note that most of the fall in prices occurs early in the decade because the current low world prices generate greater payments in the early period. Due to a reduction in area planted, soybean prices increase slightly, but the price gains are short lived as South

Table 5. Impacts of the FAIR Act on the U.S. crop sector: changes on a one-year crop basis relative to a March 2001 baseline

|                    |            |        |        |        |        |        |        |        |        | 02-10   |
|--------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|                    | 2002       | 2003   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   | 2100   | average |
| Planted area (mill | ion acres) |        |        |        |        |        |        |        |        |         |
| 9 major crops      | 2.09       | 1.96   | 1.46   | 1.14   | 0.90   | 0.66   | 0.47   | 0.35   | 0.23   | 2.09    |
| Wheat              | 1.19       | 1.10   | 0.69   | 0.55   | 0.36   | 0.27   | 0.15   | 0.10   | 0.06   | 1.19    |
| Corn               | 1.31       | 1.15   | 0.80   | 0.63   | 0.53   | 0.43   | 0.31   | 0.26   | 0.20   | 1.31    |
| Soybeans           | -1.33      | -1.17  | -0.82  | -0.76  | -0.67  | -0.60  | -0.48  | -0.42  | -0.38  | -1.33   |
| Upland cotton      | 0.11       | 0.10   | 0.12   | 0.10   | 0.08   | 0.07   | 0.06   | 0.05   | 0.04   | 0.11    |
| Rice               | 0.02       | 0.01   | 0.02   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.02    |
| Sorghum            | 0.47       | 0.46   | 0.39   | 0.34   | 0.30   | 0.23   | 0.19   | 0.16   | 0.12   | 0.47    |
| Barley             | 0.12       | 0.08   | 0.07   | 0.08   | 0.09   | 0.08   | 0.08   | 0.06   | 0.05   | 0.12    |
| Oats               | 0.17       | 0.19   | 0.18   | 0.18   | 0.17   | 0.14   | 0.14   | 0.12   | 0.11   | 0.17    |
| Sunflowers         | 0.03       | 0.04   | 0.02   | 0.02   | 0.02   | 0.02   | 0.02   | 0.02   | 0.02   | 0.03    |
| Crop prices        |            |        |        |        |        |        |        |        |        |         |
| Wheat (\$/bu)      | -0.04      | -0.05  | -0.04  | -0.03  | -0.03  | -0.02  | -0.01  | -0.01  | -0.01  | -0.04   |
| Corn (\$/bu)       | -0.04      | -0.06  | -0.06  | -0.05  | -0.04  | -0.03  | -0.02  | -0.02  | -0.01  | -0.04   |
| Soybeans (\$/bu)   | 0.09       | 0.08   | 0.06   | 0.05   | 0.04   | 0.04   | 0.03   | 0.03   | 0.03   | 0.09    |
| Upland cotton      |            |        |        |        |        |        |        |        |        |         |
| (\$/lb)            | -0.002     | -0.003 | -0.003 | -0.003 | -0.002 | -0.002 | -0.002 | -0.002 | -0.001 | -0.002  |
| Rice (\$/cwt)      | -0.05      | -0.05  | -0.06  | -0.05  | -0.05  | -0.05  | -0.04  | -0.03  | -0.03  | -0.05   |
| Sorghum (\$/bu)    | -0.06      | -0.08  | -0.07  | -0.06  | -0.05  | -0.04  | -0.03  | -0.02  | -0.02  | -0.06   |
| Barley (\$/bu)     | -0.05      | -0.06  | -0.05  | -0.05  | -0.04  | -0.04  | -0.03  | -0.02  | -0.02  | -0.05   |
| Crop gross return  | s*         |        |        |        |        |        |        |        |        |         |
| Wheat (\$/bu)      | 0.48       | 0.38   | 0.35   | 0.29   | 0.23   | 0.18   | 0.15   | 0.13   | 0.11   | 0.48    |
| Corn (\$/bu)       | 0.22       | 0.20   | 0.19   | 0.16   | 0.13   | 0.11   | 0.09   | 0.07   | 0.06   | 0.22    |
| Soybeans (\$/bu)   | 0.30       | 0.30   | 0.28   | 0.28   | 0.27   | 0.27   | 0.26   | 0.26   | 0.26   | 0.30    |
| Upland cotton      |            |        |        |        |        |        |        |        |        |         |
| (\$/lb)            | 0.089      | 0.086  | 0.083  | 0.079  | 0.074  | 0.067  | 0.063  | 0.058  | 0.053  | 0.089   |
| Rice (\$/cwt)      | 1.13       | 0.93   | 0.90   | 0.78   | 0.71   | 0.59   | 0.56   | 0.51   | 0.45   | 1.13    |
| Sorghum (\$/bu)    | 0.35       | 0.33   | 0.30   | 0.27   | 0.22   | 0.20   | 0.17   | 0.14   | 0.12   | 0.35    |

<sup>\*</sup> Gross returns include program payments.

America compensates. Crop gross returns do appear to be significantly higher in Table 5, but they include the decoupled payments as well.

The impacts of FSRI on milk production can be found in Table 6. Milk production is 1.2 billion pounds higher during the operation of the National Milk Program, 2003 to 2005. As a result, milk prices are lower by about \$0.33 per gallon, but producers' gross returns are higher by \$0.21 per cwt over the 2003 to 2005 period. When the program expires in 2005 milk prices continue to be lower resulting in an average increase of just \$0.02 in milk gross returns over the 2002 to 2011 period.

Table 6. Impacts of the FAIR Act on the U.S. dairy sector; changes on a calendar-year basis relative to a December 2001 baseline

|                 | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 02-11<br>average |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|
| Milk production |       |       |       |       |       |       |       |       |       |       |                  |
| (bil lb)        | 0.8   | 1.1   | 1.2   | 1.2   | 0.8   | 0.5   | 0.3   | 0.2   | 0.1   | 0.1   | 0.6              |
| All-milk price  |       |       |       |       |       |       |       |       |       |       |                  |
| (\$/cwt)        | -0.12 | -0.22 | -0.33 | -0.41 | -0.16 | -0.16 | -0.17 | -0.13 | -0.09 | -0.06 | -0.18            |
| Gross returns*  |       |       |       |       |       |       |       |       |       |       |                  |
| (\$/cwt)        | 0.38  | 0.31  | 0.21  | 0.11  | -0.16 | -0.16 | -0.17 | -0.13 | -0.09 | -0.06 | 0.02             |

<sup>\*</sup>Gross returns include total program payments divided by total milk production

As reported in Table 7, the U.S. government does spend a total of \$62.8 billion more in the 2002 Act, over 70 percent of which shows in net farm income. In Table 8 net farm income averages \$4.5 billion per year higher over the 2002 to 2011 period than under the 1996 FAIR Act.

Table 7. Impacts of the FAIR Act on CCC net outlays; changes on a fiscal-year basis relative to a March 2001 baseline

|                | 2002         | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 02-11<br>average |
|----------------|--------------|------|------|------|------|------|------|------|------|------|------------------|
|                | (\$ billion) |      |      |      |      |      |      |      |      |      |                  |
| Title I        |              |      |      |      |      |      |      |      |      |      |                  |
| (commodities)  | 3.62         | 4.61 | 7.67 | 7.43 | 6.05 | 5.15 | 4.01 | 4.19 | 3.71 | 3.23 | 49.66            |
| Title II       |              |      |      |      |      |      |      |      |      |      |                  |
| (conservation) | 0.34         | 0.45 | 0.83 | 1.20 | 1.52 | 1.64 | 1.64 | 1.74 | 1.86 | 1.98 | 13.21            |
| Total          | 3.97         | 5.06 | 8.50 | 8.63 | 7.56 | 6.80 | 5.65 | 5.93 | 5.57 | 5.21 | 62.87            |

Table 8. Impacts of the FAIR Act on net farm income, changes on a calendar-year basis relative to a March 2001 baseline

|                | 2002 | 2003 | 2004 | 2005 | 2006 | 2007        | 2008 | 2009 | 2010 | 2011 | 02-11<br>average |
|----------------|------|------|------|------|------|-------------|------|------|------|------|------------------|
|                |      |      |      |      |      | (\$ billion | n)   |      |      |      | _                |
| Title I        |      |      |      |      |      |             |      |      |      |      |                  |
| (commodities)  | 4.57 | 6.11 | 5.47 | 5.08 | 3.99 | 2.61        | 2.95 | 2.72 | 2.41 | 2.12 | 3.80             |
| Title II       |      |      |      |      |      |             |      |      |      |      |                  |
| (conservation) | 0.09 | 0.28 | 0.50 | 0.71 | 0.89 | 0.92        | 0.86 | 0.87 | 0.90 | 0.93 | 0.70             |
| Total          | 4.66 | 6.39 | 5.97 | 5.79 | 4.88 | 3.53        | 3.81 | 3.59 | 3.31 | 3.05 | 4.50             |

In Table 9, the impacts on U.S. exports are presented for the major commodities the United States exports. In general, the table reflects very small changes in U.S. export levels. As with acreage, exports increase slightly for all crops with the exception of soybeans and soybean products.

Table 9. Impacts of the FAIR Act on the U.S. crop sector; changes on a crop-year basis relative to a March 2001 baseline

|               |        |        |        |        |          |        |        |        |       | 02-10   |
|---------------|--------|--------|--------|--------|----------|--------|--------|--------|-------|---------|
|               | 2002   | 2003   | 2004   | 2005   | 2006     | 2007   | 2008   | 2009   | 2100  | average |
|               |        |        |        |        | ( \$ bil | llion) |        |        |       |         |
| Wheat         |        |        |        |        |          |        |        |        |       |         |
| Million mt    | 0.48   | 0.85   | 0.86   | 0.73   | 0.56     | 0.42   | 0.29   | 0.20   | 0.14  | 0.50    |
| % change      | 1.7%   | 2.9%   | 2.9%   | 2.4%   | 1.8%     | 1.4%   | 0.9%   | 0.6%   | 0.4%  |         |
| Corn          |        |        |        |        |          |        |        |        |       |         |
| Million mt    | 0.53   | 1.11   | 1.45   | 1.50   | 1.40     | 1.22   | 0.99   | 0.77   | 0.60  | 1.06    |
| % change      | 1.0%   | 2.0%   | 2.4%   | 2.4%   | 2.2%     | 1.9%   | 1.5%   | 1.1%   | 0.8%  |         |
| Soybeans      |        |        |        |        |          |        |        |        |       |         |
| Million mt    | -0.44  | -0.92  | -0.88  | -0.76  | -0.63    | -0.54  | -0.47  | -0.41  | -0.36 | -0.60   |
| % change      | -1.5%  | -3.1%  | -2.9%  | -2.5%  | -2.0%    | -1.7%  | -1.5%  | -1.3%  | -1.1% |         |
| Soybean meal  |        |        |        |        |          |        |        |        |       |         |
| Million mt    | -126.1 | -74.6  | -19.1  | -12.1  | -27.5    | -38.4  | -33.7  | -31.4  | -29.8 | -43.62  |
| % change      | -1.8%  | -1.1%  | -0.3%  | -0.2%  | -0.4%    | -0.6%  | -0.5%  | -0.5%  | -0.4% |         |
| Soybean oil   |        |        |        |        |          |        |        |        |       |         |
| Million mt    | -35.52 | -33.26 | -20.05 | -15.07 | -14.97   | -14.94 | -12.13 | -10.32 | -9.33 | -18.40  |
| % change      | -5.0%  | -4.4%  | -2.5%  | -1.8%  | -1.7%    | -1.7%  | -1.3%  | -1.1%  | -1.0% |         |
| Upland cotton |        |        |        |        |          |        |        |        |       |         |
| Million mt    | 12.08  | 17.07  | 20.84  | 20.69  | 18.89    | 16.47  | 13.86  | 11.67  | 10.11 | 15.74   |
| % change      | 0.7%   | 0.9%   | 1.1%   | 1.1%   | 0.9%     | 0.8%   | 0.7%   | 0.6%   | 0.5%  |         |
| Rice          |        |        |        |        |          |        |        |        |       |         |
| Million mt    | 0.03   | 0.03   | 0.04   | 0.04   | 0.03     | 0.03   | 0.03   | 0.02   | 0.02  | 0.03    |
| % change      | 0.8%   | 0.8%   | 1.0%   | 0.9%   | 0.9%     | 0.8%   | 0.7%   | 0.6%   | 0.6%  |         |
| Sorghum       |        |        |        |        |          |        |        |        |       |         |
| Million mt    | 0.11   | 0.16   | 0.15   | 0.14   | 0.13     | 0.11   | 0.09   | 0.08   | 0.06  | 0.11    |
| % change      | 2.2%   | 2.9%   | 2.8%   | 2.5%   | 2.2%     | 1.8%   | 1.5%   | 1.2%   | 0.9%  |         |

So why doesn't the projected \$62.8 billion have more of an effect on U.S. agricultural production? In large part, it is because most of the payments are decoupled from current levels of production. To a lesser extent, the supply controls that were removed in the 1996 FAIR Act already allowed U.S. farmers to expand crop area to their productive limits given current commodity price levels. Finally, as Table 10 illustrates, the ad hoc disaster assistance offered in the last four years of the FAIR Act was roughly at the same level as the direct and CCP payment offered under the 2002 Act.

## The 2002 FSRI Act and the WTO

With at least \$62.8 billion more in additional spending on U.S. agricultural policy, the burning question is whether the United States is likely to exceed its WTO commitments. Using the box terminology from the previous WTO negotiation, the amber box designates policies that are considered to be trade distorting and have an aggregate spending limit attached to them.

However, there are a couple of loopholes in the amber box. The *de minimis* rule exempts spending on amber box programs if the spending is below the agreed upon percentage of the value of production. In the case of the United States the agreed to percentage is 5 percent; spending below 5 percent of the value of production is not counted against the amber box limit. However, if the spending exceeds 5 percent of the value of production, all of the spending counts against the limit.

Table 10. Comparison of Crop Payments: Historical, Projected FAIR Act and FSRIA (Annual Averages, Thousand Dollars)

| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    | History     | FAIR Act  | FSRIA      | Change    | FAIR Act    | FSRIA       | Change    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|-----------|------------|-----------|-------------|-------------|-----------|
| AX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    | 98-00 Crops | 2002 Crop | 2002 Crop  | from FAIR | 02-07 Crops | 02-07 Crops | from FAIR |
| AX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AL | 110.376     | 46.925    | 95.472     | 48.547    | 42.307      | 85.825      | 43.518    |
| AR         811,370         567,921         811,113         243,192         484,659         684,582         199,922           CO         248,966         117,188         234,430         117,242         100,848         192,179         91,331           CT         2,831         1,531         2,781         1,250         1,287         2,321         1,034           DE         19,024         13,747         25,072         11,325         10,718         20,498         9,780           GA         237,443         99,784         221,223         121,439         90,148         200,098         109,950           ID         181,147         85,956         176,734         90,778         75,553         142,965         67,412           IL         1,548,884         1,055,133         1,610,541         555,408         843,969         1,330,734         486,765           KS         1,052,347         524,289         1,039,564         451,527         441,884         844,014         462,752           KS         1,052,347         524,289         1,039,564         451,527         47,788         85,170         141,883         56,713           LA         3,902         2,475         4,584 <td< td=""><td></td><td>·</td><td></td><td>•</td><td></td><td>·</td><td>•</td><td>·</td></td<>                                |    | ·           |           | •          |           | ·           | •           | ·         |
| CA 530,775                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ΑZ | 117,953     | 50,010    | 139,669    | 89,659    | 46,219      | 128,240     | 82,021    |
| CA 530,775                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AR | 811,370     | 567,921   | 811,113    | 243,192   | 484,659     | 684,582     | 199,922   |
| CT         2,831         1,531         2,781         1,250         1,267         2,321         1,034           FL         21,604         10,150         20,916         10,766         9,375         19,049         9,674           GA         237,443         99,784         221,223         121,439         90,148         200,098         109,950           ID         181,147         85,956         176,734         90,778         75,553         142,965         67,412           IL         1,548,884         1,055,133         1,610,541         555,408         843,969         1,330,734         486,765           IN         748,542         510,114         786,568         276,454         408,925         652,038         243,113           IA         1,718,027         1,154,812         1,704,048         549,236         929,615         1,415,614         485,999           KS         1,052,347         524,289         1,039,564         515,275         441,884         844,016         402,132           KY         175,524         104,458         172,247         67,788         85,170         141,883         56,713           LA         394,270         206,223         347,058         140,836                                                                                                                     | CA |             | 319,844   | 565,830    | 245,987   | 287,852     | 500,509     |           |
| CT         2,831         1,531         2,781         1,250         1,267         2,321         1,034           FL         21,604         10,150         20,916         10,766         9,375         19,049         9,674           GA         237,443         99,784         221,223         121,439         90,148         200,098         109,950           ID         181,147         85,956         176,734         90,778         75,553         142,965         67,412           IL         1,548,884         1,055,133         1,610,541         555,408         843,969         1,330,734         486,765           IN         748,542         510,114         786,568         276,454         408,925         652,038         243,113           IA         1,718,027         1,154,812         1,704,048         549,236         929,615         1,415,614         485,999           KS         1,052,347         524,289         1,039,564         515,275         441,884         844,016         402,132           KY         175,524         104,458         172,247         67,788         85,170         141,883         56,713           LA         394,270         206,223         347,058         140,836                                                                                                                     | CO |             | 117,188   | 234,430    | 117,242   | 100,848     | 192,179     | 91,331    |
| FL 21,604                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CT | 2,831       | 1,531     |            | 1,250     | 1,287       | 2,321       | 1,034     |
| GA         237,443         99,784         221,223         121,439         90,148         200,098         109,950           ID         181,147         85,956         176,734         90,778         75,553         142,965         67,412           IL         1,548,884         1,055,133         1,610,541         555,408         843,969         1,330,734         486,765           IN         748,542         510,114         786,568         276,454         408,925         652,038         243,113           KS         1,052,347         524,289         1,039,564         515,275         441,884         844,016         402,132           KY         175,524         104,488         172,247         67,788         85,170         141,883         56,713           ME         3,902         2,475         4,584         2,108         1,944         3,778         1,834           MD         59,484         40,540         70,040         29,500         31,808         56,796         24,988           MS         397,293         187,163         285,925         98,762         151,732         236,338         84,606           MN         1,155,303         766,073         1,160,867         394,794                                                                                                                         | DE | 19,024      | 13,747    | 25,072     | 11,325    | 10,718      | 20,498      | 9,780     |
| DE   181,147                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FL | 21,604      | 10,150    | 20,916     | 10,766    | 9,375       | 19,049      | 9,674     |
| IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | GA | 237,443     | 99,784    | 221,223    | 121,439   | 90,148      | 200,098     | 109,950   |
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ID | 181,147     | 85,956    | 176,734    | 90,778    | 75,553      | 142,965     | 67,412    |
| Nation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IL | 1,548,884   | 1,055,133 | 1,610,541  | 555,408   | 843,969     | 1,330,734   | 486,765   |
| KS         1,052,347         524,289         1,039,564         515,275         441,884         844,016         402,132           KY         175,524         104,458         172,247         67,788         85,170         141,883         56,713           LA         364,270         206,223         347,058         140,836         182,456         304,144         121,688           ME         3,902         2,475         4,584         2,108         1,944         3,778         1,834           MD         59,844         40,540         70,040         29,500         31,808         56,796         24,988           MI         296,223         187,163         285,925         98,762         151,732         236,338         84,606           MN         1,135,303         766,073         1,160,867         394,794         607,441         942,567         335,126           MS         397,293         211,101         368,476         157,375         183,386         323,602         140,216           MO         572,962         381,413         574,267         192,854         308,704         475,416         166,712           MT         297,660         129,238         266,327         137,088                                                                                                                           | IN | 748,542     | 510,114   | 786,568    | 276,454   | 408,925     | 652,038     | 243,113   |
| KY         175,524         104,458         172,247         67,788         85,170         141,883         56,713           LA         364,270         206,223         347,058         140,836         182,456         304,144         121,688           ME         3,902         2,475         4,584         2,108         1,944         3,778         1,834           MD         59,484         40,540         70,040         29,500         31,808         56,796         24,988           MA         1,758         934         1,697         763         790         1,424         634           MI         296,223         187,163         285,925         98,762         151,732         236,338         84,606           MN         1,135,303         766,073         1,160,867         394,794         607,441         942,567         335,126           MS         397,293         211,101         368,476         157,375         183,386         323,602         140,216           MO         572,962         381,413         574,267         192,854         308,704         475,416         166,712           MT         297,660         129,238         266,327         137,088         116,237                                                                                                                                     | IA | 1,718,027   | 1,154,812 | 1,704,048  | 549,236   | 929,615     | 1,415,614   | 485,999   |
| LA 364,270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | KS | 1,052,347   | 524,289   | 1,039,564  | 515,275   | 441,884     | 844,016     | 402,132   |
| ME         3,902         2,475         4,584         2,108         1,944         3,778         1,834           MD         59,484         40,540         70,040         29,500         31,808         56,796         24,988           MA         1,758         934         1,697         763         790         1,424         634           MI         296,223         187,163         285,925         98,762         151,732         236,338         84,606           MN         1,135,303         766,073         1,160,867         394,794         607,441         942,567         335,126           MS         397,293         211,101         368,476         157,375         183,386         323,602         140,216           MO         572,962         381,413         574,267         192,854         308,704         475,416         166,712           MT         297,660         129,238         266,327         137,088         116,237         218,262         102,025           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         658         1,172         514<                                                                                                                                         | KY | 175,524     | 104,458   | 172,247    | 67,788    | 85,170      | 141,883     | 56,713    |
| MD         59,484         40,540         70,040         29,500         31,808         56,796         24,988           MA         1,758         934         1,697         763         790         1,424         634           MI         296,223         187,163         285,925         98,762         151,732         236,338         84,606           MN         1,135,303         766,073         1,160,867         394,794         607,441         942,567         335,126           MS         397,293         211,101         368,476         157,375         183,386         323,602         140,216           MO         572,962         381,413         574,267         192,854         308,704         475,416         166,712           MT         297,660         129,238         226,327         137,088         116,237         218,262         102,025           NE         1,158,488         674,634         1,124,702         450,068         557,807         938,043         380,236           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         655         1,172 <td>LA</td> <td>364,270</td> <td>206,223</td> <td>347,058</td> <td>140,836</td> <td>182,456</td> <td>304,144</td> <td>121,688</td> | LA | 364,270     | 206,223   | 347,058    | 140,836   | 182,456     | 304,144     | 121,688   |
| MA         1,758         934         1,697         763         790         1,424         634           MI         296,223         187,163         285,925         98,762         151,732         236,338         84,606           MN         1,135,303         766,073         1,160,867         394,794         607,441         942,567         335,126           MS         397,293         211,101         368,476         157,375         183,386         323,602         140,216           MO         572,962         381,413         574,267         192,854         308,704         475,416         166,712           MT         297,660         129,238         266,327         137,088         116,237         218,262         102,025           NE         1,158,488         674,634         1,124,702         450,068         557,807         938,043         380,236           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         658         1,172         514           NJ         8,675         5,725         10,616         4,891         4,555         8,891                                                                                                                                            | ME | 3,902       | 2,475     | 4,584      | 2,108     | 1,944       | 3,778       | 1,834     |
| MA         1,758         934         1,697         763         790         1,424         634           MI         296,223         187,163         285,925         98,762         151,732         236,338         84,606           MN         1,135,303         766,073         1,160,867         394,794         607,441         942,567         335,126           MS         397,293         211,101         368,476         157,375         183,386         323,602         140,216           MO         572,962         381,413         574,267         192,854         308,704         475,416         166,712           MT         297,660         129,238         266,327         137,088         116,237         218,262         102,025           NE         1,158,488         674,634         1,124,702         450,068         557,807         938,043         380,236           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         658         1,172         514           NJ         8,675         5,725         10,616         4,891         4,555         8,891                                                                                                                                            | MD | 59,484      | 40,540    |            | 29,500    | 31,808      | 56,796      | 24,988    |
| MN         1,135,303         766,073         1,160,867         394,794         607,441         942,567         335,126           MS         397,293         211,101         368,476         157,375         183,386         323,602         140,216           MO         572,962         381,413         574,267         192,854         308,704         475,416         166,712           MT         297,660         129,238         266,327         137,088         116,237         218,262         102,025           NE         1,158,488         674,634         1,124,702         450,068         557,807         938,043         380,236           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         658         1,172         514           NJ         8,675         5,725         10,616         4,891         4,555         8,891         4,336           NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989 <td>MA</td> <td>1,758</td> <td>934</td> <td></td> <td>763</td> <td>790</td> <td>1,424</td> <td>634</td>                           | MA | 1,758       | 934       |            | 763       | 790         | 1,424       | 634       |
| MS         397,293         211,101         368,476         157,375         183,386         323,602         140,216           MO         572,962         381,413         574,267         192,854         308,704         475,416         166,712           MT         297,660         129,238         266,327         137,088         116,237         218,262         102,025           NE         1,158,488         674,634         1,124,702         450,068         557,807         938,043         380,236           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         658         1,172         514           NJ         3,675         5,725         10,616         4,891         4,555         8,891         4,336           NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989         30,630           NC         216,734         114,441         216,635         102,194         95,716         185,788                                                                                                                                         | MI | 296,223     | 187,163   | 285,925    | 98,762    | 151,732     | 236,338     | 84,606    |
| MO         572,962         381,413         574,267         192,854         300,704         475,416         166,712           MT         297,660         129,238         266,327         137,088         116,237         218,262         102,025           NE         1,158,488         674,634         1,124,702         450,068         557,807         938,043         380,236           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         658         1,172         514           NJ         8,675         5,725         10,616         4,891         4,555         8,891         4,336           NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989         30,630           NC         216,734         114,441         216,635         102,194         95,716         185,788         90,72           ND         731,210         403,415         676,488         273,073         334,934         536,2689                                                                                                                                          | MN |             | 766,073   | 1,160,867  |           |             |             | 335,126   |
| MT         297,660         129,238         266,327         137,088         116,237         218,262         102,025           NE         1,158,488         674,634         1,124,702         450,068         557,807         938,043         380,236           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         658         1,172         514           NJ         8,675         5,725         10,616         4,891         4,555         8,891         4,336           NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989         30,630           NC         216,734         114,441         216,635         102,194         95,716         185,788         90,072           ND         731,210         403,415         676,488         273,073         334,934         536,269         201,336           OH         534,530         369,324         567,561         198,237         292,408         463,077                                                                                                                                          | MS | 397,293     | 211,101   | 368,476    | 157,375   | 183,386     | 323,602     | 140,216   |
| NE         1,158,488         674,634         1,124,702         450,068         557,807         938,043         380,236           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         658         1,172         514           NJ         8,675         5,725         10,616         4,891         4,555         8,891         4,336           NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989         30,630           NC         216,734         114,441         216,635         102,194         95,716         185,788         90,072           ND         731,210         403,415         676,488         273,073         334,934         536,269         201,336           OH         534,530         369,324         567,561         198,237         292,408         463,077         170,670           OK         333,039         136,121         294,900         158,779         123,607         246,081                                                                                                                                          | MO | 572,962     | 381,413   | 574,267    | 192,854   | 308,704     | 475,416     | 166,712   |
| NE         1,158,488         674,634         1,124,702         450,068         557,807         938,043         380,236           NV         1,994         1,021         2,063         1,042         954         1,803         848           NH         1,476         806         1,440         634         658         1,172         514           NJ         8,675         5,725         10,616         4,891         4,555         8,891         4,336           NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989         30,630           NC         216,734         114,441         216,635         102,194         95,716         185,788         90,072           ND         731,210         403,415         676,488         273,073         334,934         536,269         201,336           OH         534,530         369,324         567,561         198,237         292,408         463,077         170,670           OK         333,039         136,121         294,900         158,779         123,607         246,081                                                                                                                                          | MT | 297,660     | 129,238   | 266,327    | 137,088   | 116,237     | 218,262     | 102,025   |
| NH         1,476         806         1,440         634         658         1,172         514           NJ         8,675         5,725         10,616         4,891         4,555         8,891         4,336           NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989         30,630           NC         216,734         114,441         216,635         102,194         95,716         185,788         90,072           ND         731,210         403,415         676,488         273,073         334,934         536,269         201,336           OH         534,530         369,324         567,561         198,237         292,408         463,077         170,670           OK         333,039         136,121         294,900         158,779         123,627         246,081         122,454           OR         84,030         35,389         74,660         39,271         31,803         60,705         28,902           PA         62,103         35,066         97,524         62,457         29,564         86,651                                                                                                                                         | NE |             | 674,634   | 1,124,702  | 450,068   | 557,807     | 938,043     | 380,236   |
| NJ         8,675         5,725         10,616         4,891         4,555         8,891         4,336           NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989         30,630           NC         216,734         114,441         216,635         102,194         95,716         185,788         90,072           ND         731,210         403,415         676,488         273,073         334,934         536,269         201,336           OH         534,530         369,324         567,561         198,237         292,408         463,077         170,670           OK         333,039         136,121         294,900         158,779         123,627         246,081         122,454           OR         84,030         35,389         74,660         39,271         31,803         60,705         28,902           PA         62,103         35,066         97,524         62,457         29,564         86,651         57,088           RI         92         49         89         40         41         75                                                                                                                                                  | NV | 1,994       | 1,021     | 2,063      | 1,042     |             | 1,803       |           |
| NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989         30,630           NC         216,734         114,441         216,635         102,194         95,716         185,788         90,072           ND         731,210         403,415         676,488         273,073         334,934         536,269         201,336           OH         534,530         369,324         567,561         198,237         292,408         463,077         170,670           OK         333,039         136,121         294,900         158,779         123,627         246,081         122,454           OR         84,030         35,389         74,660         39,271         31,803         60,705         28,902           PA         62,103         35,066         97,524         62,457         29,564         86,651         57,088           RI         92         49         89         40         41         75         34           SC         81,037         39,153         73,697         34,544         34,275         64,788 <t< td=""><td>NH</td><td>1,476</td><td>806</td><td>1,440</td><td>634</td><td>658</td><td>1,172</td><td>514</td></t<>                           | NH | 1,476       | 806       | 1,440      | 634       | 658         | 1,172       | 514       |
| NM         51,366         22,795         45,406         22,611         20,246         39,051         18,804           NY         73,269         35,925         71,504         35,579         31,359         61,989         30,630           NC         216,734         114,441         216,635         102,194         95,716         185,788         90,072           ND         731,210         403,415         676,488         273,073         334,934         536,269         201,336           OH         534,530         369,324         567,561         198,237         292,408         463,077         170,670           OK         333,039         136,121         294,900         158,779         123,627         246,081         122,454           OR         84,030         35,389         74,660         39,271         31,803         60,705         28,902           PA         62,103         35,066         97,524         62,457         29,564         86,651         57,088           RI         92         49         89         40         41         75         34           SC         81,037         39,153         73,697         34,544         34,275         64,788 <t< td=""><td>NJ</td><td>8,675</td><td>5,725</td><td>10,616</td><td>4,891</td><td>4,555</td><td>8,891</td><td>4,336</td></t<>                  | NJ | 8,675       | 5,725     | 10,616     | 4,891     | 4,555       | 8,891       | 4,336     |
| NC         216,734         114,441         216,635         102,194         95,716         185,788         90,072           ND         731,210         403,415         676,488         273,073         334,934         536,269         201,336           OH         534,530         369,324         567,561         198,237         292,408         463,077         170,670           OK         333,039         136,121         294,900         158,779         123,627         246,081         122,454           OR         84,030         35,389         74,660         39,271         31,803         60,705         28,902           PA         62,103         35,066         97,524         62,457         29,564         86,651         57,088           RI         92         49         89         40         41         75         34           SC         81,037         39,153         73,697         34,544         34,275         64,788         30,513           SD         582,180         391,814         605,878         214,064         310,215         487,005         176,790           TN         182,878         96,431         172,497         76,066         80,649         147,042                                                                                                                                      | NM |             |           | 45,406     | 22,611    |             | 39,051      | 18,804    |
| NC         216,734         114,441         216,635         102,194         95,716         185,788         90,072           ND         731,210         403,415         676,488         273,073         334,934         536,269         201,336           OH         534,530         369,324         567,561         198,237         292,408         463,077         170,670           OK         333,039         136,121         294,900         158,779         123,627         246,081         122,454           OR         84,030         35,389         74,660         39,271         31,803         60,705         28,902           PA         62,103         35,066         97,524         62,457         29,564         86,651         57,088           RI         92         49         89         40         41         75         34           SC         81,037         39,153         73,697         34,544         34,275         64,788         30,513           SD         582,180         391,814         605,878         214,064         310,215         487,005         176,790           TN         182,878         96,431         172,497         76,066         80,649         147,042                                                                                                                                      | NY | 73,269      | 35,925    | 71,504     | 35,579    | 31,359      | 61,989      | 30,630    |
| OH         534,530         369,324         567,561         198,237         292,408         463,077         170,670           OK         333,039         136,121         294,900         158,779         123,627         246,081         122,454           OR         84,030         35,389         74,660         39,271         31,803         60,705         28,902           PA         62,103         35,066         97,524         62,457         29,564         86,651         57,088           RI         92         49         89         40         41         75         34           SC         81,037         39,153         73,697         34,544         34,275         64,788         30,513           SD         582,180         391,814         605,878         214,064         310,215         487,005         176,790           TN         182,878         96,431         172,497         76,066         80,649         147,042         66,393           TX         1,261,042         569,687         1,151,864         582,177         512,215         1,011,791         499,577           UT         18,361         8,363         16,917         8,554         7,391         14,060                                                                                                                                        | NC | 216,734     | 114,441   | 216,635    | 102,194   | 95,716      | 185,788     | 90,072    |
| OK         333,039         136,121         294,900         158,779         123,627         246,081         122,454           OR         84,030         35,389         74,660         39,271         31,803         60,705         28,902           PA         62,103         35,066         97,524         62,457         29,564         86,651         57,088           RI         92         49         89         40         41         75         34           SC         81,037         39,153         73,697         34,544         34,275         64,788         30,513           SD         582,180         391,814         605,878         214,064         310,215         487,005         176,790           TN         182,878         96,431         172,497         76,066         80,649         147,042         66,393           TX         1,261,042         569,687         1,151,864         582,177         512,215         1,011,791         499,577           UT         18,361         8,363         16,917         8,554         7,391         14,060         6,669           VT         4,936         2,721         4,831         2,110         2,232         3,956         1,72                                                                                                                                         | ND | 731,210     | 403,415   | 676,488    | 273,073   | 334,934     | 536,269     | 201,336   |
| OR         84,030         35,389         74,660         39,271         31,803         60,705         28,902           PA         62,103         35,066         97,524         62,457         29,564         86,651         57,088           RI         92         49         89         40         41         75         34           SC         81,037         39,153         73,697         34,544         34,275         64,788         30,513           SD         582,180         391,814         605,878         214,064         310,215         487,005         176,790           TN         182,878         96,431         172,497         76,066         80,649         147,042         66,393           TX         1,261,042         569,687         1,151,864         582,177         512,215         1,011,791         499,577           UT         18,361         8,363         16,917         8,554         7,391         14,060         6,669           VT         4,936         2,721         4,831         2,110         2,232         3,956         1,723           VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479                                                                                                                                               | OH | 534,530     | 369,324   | 567,561    | 198,237   |             |             | 170,670   |
| PA         62,103         35,066         97,524         62,457         29,564         86,651         57,088           RI         92         49         89         40         41         75         34           SC         81,037         39,153         73,697         34,544         34,275         64,788         30,513           SD         582,180         391,814         605,878         214,064         310,215         487,005         176,790           TN         182,878         96,431         172,497         76,066         80,649         147,042         66,393           TX         1,261,042         569,687         1,151,864         582,177         512,215         1,011,791         499,577           UT         18,361         8,363         16,917         8,554         7,391         14,060         6,669           VT         4,936         2,721         4,831         2,110         2,232         3,956         1,723           VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479           WA         222,744         92,240         199,026         106,786         81,362         158,729         77,367 </td <td>OK</td> <td>333,039</td> <td>136,121</td> <td>294,900</td> <td>158,779</td> <td>123,627</td> <td>246,081</td> <td>122,454</td>   | OK | 333,039     | 136,121   | 294,900    | 158,779   | 123,627     | 246,081     | 122,454   |
| RI         92         49         89         40         41         75         34           SC         81,037         39,153         73,697         34,544         34,275         64,788         30,513           SD         582,180         391,814         605,878         214,064         310,215         487,005         176,790           TN         182,878         96,431         172,497         76,066         80,649         147,042         66,393           TX         1,261,042         569,687         1,151,864         582,177         512,215         1,011,791         499,577           UT         18,361         8,363         16,917         8,554         7,391         14,060         6,669           VT         4,936         2,721         4,831         2,110         2,232         3,956         1,723           VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479           WA         222,744         92,240         199,026         106,786         81,362         158,729         77,367           WV         5,259         2,707         4,503         1,796         2,356         3,894         1,538                                                                                                                                                  | OR | 84,030      | 35,389    | 74,660     | 39,271    | 31,803      | 60,705      | 28,902    |
| SC         81,037         39,153         73,697         34,544         34,275         64,788         30,513           SD         582,180         391,814         605,878         214,064         310,215         487,005         176,790           TN         182,878         96,431         172,497         76,066         80,649         147,042         66,393           TX         1,261,042         569,687         1,151,864         582,177         512,215         1,011,791         499,577           UT         18,361         8,363         16,917         8,554         7,391         14,060         6,669           VT         4,936         2,721         4,831         2,110         2,232         3,956         1,723           VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479           WA         222,744         92,240         199,026         106,786         81,362         158,729         77,367           WV         5,259         2,707         4,503         1,796         2,356         3,894         1,538           WI         350,957         206,865         338,486         131,620         171,967         286,52                                                                                                                                | PA | 62,103      | 35,066    | 97,524     | 62,457    | 29,564      | 86,651      | 57,088    |
| SD         582,180         391,814         605,878         214,064         310,215         487,005         176,790           TN         182,878         96,431         172,497         76,066         80,649         147,042         66,393           TX         1,261,042         569,687         1,151,864         582,177         512,215         1,011,791         499,577           UT         18,361         8,363         16,917         8,554         7,391         14,060         6,669           VT         4,936         2,721         4,831         2,110         2,232         3,956         1,723           VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479           WA         222,744         92,240         199,026         106,786         81,362         158,729         77,367           WV         5,259         2,707         4,503         1,796         2,356         3,894         1,538           WI         350,957         206,865         338,486         131,620         171,967         286,521         114,554           WY         20,973         10,518         20,579         10,061         9,400         17,41                                                                                                                                | RI | 92          | 49        | 89         | 40        | 41          | 75          | 34        |
| TN         182,878         96,431         172,497         76,066         80,649         147,042         66,393           TX         1,261,042         569,687         1,151,864         582,177         512,215         1,011,791         499,577           UT         18,361         8,363         16,917         8,554         7,391         14,060         6,669           VT         4,936         2,721         4,831         2,110         2,232         3,956         1,723           VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479           WA         222,744         92,240         199,026         106,786         81,362         158,729         77,367           WV         5,259         2,707         4,503         1,796         2,356         3,894         1,538           WI         350,957         206,865         338,486         131,620         171,967         286,521         114,554           WY         20,973         10,518         20,579         10,061         9,400         17,418         8,017                                                                                                                                                                                                                                              | SC | 81,037      | 39,153    | 73,697     | 34,544    | 34,275      | 64,788      | 30,513    |
| TN         182,878         96,431         172,497         76,066         80,649         147,042         66,393           TX         1,261,042         569,687         1,151,864         582,177         512,215         1,011,791         499,577           UT         18,361         8,363         16,917         8,554         7,391         14,060         6,669           VT         4,936         2,721         4,831         2,110         2,232         3,956         1,723           VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479           WA         222,744         92,240         199,026         106,786         81,362         158,729         77,367           WV         5,259         2,707         4,503         1,796         2,356         3,894         1,538           WI         350,957         206,865         338,486         131,620         171,967         286,521         114,554           WY         20,973         10,518         20,579         10,061         9,400         17,418         8,017                                                                                                                                                                                                                                              | SD | 582,180     | 391,814   | 605,878    | 214,064   | 310,215     | 487,005     | 176,790   |
| UT     18,361     8,363     16,917     8,554     7,391     14,060     6,669       VT     4,936     2,721     4,831     2,110     2,232     3,956     1,723       VA     70,673     40,902     72,040     31,138     33,615     60,094     26,479       WA     222,744     92,240     199,026     106,786     81,362     158,729     77,367       WV     5,259     2,707     4,503     1,796     2,356     3,894     1,538       WI     350,957     206,865     338,486     131,620     171,967     286,521     114,554       WY     20,973     10,518     20,579     10,061     9,400     17,418     8,017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TN | 182,878     | 96,431    | 172,497    |           | 80,649      | 147,042     | 66,393    |
| VT         4,936         2,721         4,831         2,110         2,232         3,956         1,723           VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479           WA         222,744         92,240         199,026         106,786         81,362         158,729         77,367           WV         5,259         2,707         4,503         1,796         2,356         3,894         1,538           WI         350,957         206,865         338,486         131,620         171,967         286,521         114,554           WY         20,973         10,518         20,579         10,061         9,400         17,418         8,017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TX | 1,261,042   | 569,687   | 1,151,864  | 582,177   | 512,215     | 1,011,791   | 499,577   |
| VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479           WA         222,744         92,240         199,026         106,786         81,362         158,729         77,367           WV         5,259         2,707         4,503         1,796         2,356         3,894         1,538           WI         350,957         206,865         338,486         131,620         171,967         286,521         114,554           WY         20,973         10,518         20,579         10,061         9,400         17,418         8,017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UT | 18,361      | 8,363     | 16,917     | 8,554     | 7,391       | 14,060      | 6,669     |
| VA         70,673         40,902         72,040         31,138         33,615         60,094         26,479           WA         222,744         92,240         199,026         106,786         81,362         158,729         77,367           WV         5,259         2,707         4,503         1,796         2,356         3,894         1,538           WI         350,957         206,865         338,486         131,620         171,967         286,521         114,554           WY         20,973         10,518         20,579         10,061         9,400         17,418         8,017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | VT | 4,936       | 2,721     | 4,831      | 2,110     | 2,232       | 3,956       | 1,723     |
| WA     222,744     92,240     199,026     106,786     81,362     158,729     77,367       WV     5,259     2,707     4,503     1,796     2,356     3,894     1,538       WI     350,957     206,865     338,486     131,620     171,967     286,521     114,554       WY     20,973     10,518     20,579     10,061     9,400     17,418     8,017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VA |             |           | 72,040     |           |             |             |           |
| WI       350,957       206,865       338,486       131,620       171,967       286,521       114,554         WY       20,973       10,518       20,579       10,061       9,400       17,418       8,017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |             |           | 199,026    |           |             |             | 77,367    |
| WI       350,957       206,865       338,486       131,620       171,967       286,521       114,554         WY       20,973       10,518       20,579       10,061       9,400       17,418       8,017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | WV | 5,259       | 2,707     | 4,503      | 1,796     |             | 3,894       | 1,538     |
| WY 20,973 10,518 20,579 10,061 9,400 17,418 8,017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WI |             |           |            |           |             |             |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WY |             |           |            |           |             |             |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US | 16,711,976  | 9,883,218 | 16,529,488 |           | 8,212,457   |             | 5,595,455 |

Within the amber box, trade-distorting subsidies are divided into two types: product-specific and non-product-specific. The *de minimis* rule applies differently to the two types of subsidies. For product specific subsidies, the 5 percent limit applies directly to the value of the specific crop subsidized. For non-production specific subsidies, the 5 percent limit applies to the entire value of all U.S. agricultural production.

Clearly the loan deficiency payments are product-specific and fall within the amber box. Since decoupled direct payments are not tied to current production they are classified as minimally trade distorting or "green box." Now the big question is in which box do the CCPs belong. The CCPs are not tied to current production, but they are tied to current prices. Thus, while they are not product-specific, they appear to be non-product-specific payments. Certainly other interpretations are possible, but for the calculation of WTO commitments, FAPRI has placed CCPs in the amber box.

In the Uruguay Round of General Agreement on Tariffs and Trage negotiations, the United States agreed to limit its amber box spending to \$19.1 billion per year. In the May 2002 baseline, FAPRI estimated that there was a 19.3 percent chance the United States would exceed its WTO limit on amber box farm subsidies.

## **Emerging Trends in Agricultural Policy**

While it may seem that U.S. policy took a step backwards toward the policies in the 1990 Farm Bill, three important trends have emerged. The first of these appears to be

FSRI Act debate, a partial attempt at decoupling payments from current production was made in order to stay within WTO commitments. Other countries and the EU CAP Reform have made policy revisions that attempt to decouple subsidies from current production. The EU continues to ease down intervention prices while partially offsetting price declines with decoupled compensatory payments.

The second significant trend is the continued movement away from supply control as a means of supporting prices. Some of the EU's current proposals include a reduction and possibly elimination of set-aside programs. In the 2002 farm bill debate there appeared to be very little discussion of supply controls. Part of the motivation for dropping supply controls appears to be that as countries reduce their barriers to imports and grant greater market access they have realized they can no longer effectively support domestic prices with supply controls.

The third important trend is that a number of countries have developed policies that include a countercyclical mechanism especially to help with periods of low prices.

Countercyclical payments in the 2002 U.S. farm bill and Ontario, Canada's Grain and Oilseed Payment scheme are two recent examples.

### Conclusions

The 2002 FSRI Act has relatively minor impacts on current U.S. commodity production, agricultural prices, and world trade because most of the additional spending is decoupled from current levels of production. About 66 percent of the additional payments is from the newly added CCPs. In many ways, the FSRI Act formalized the add hoc payments (AMTA payments) made the last four years of the FAIR Act. The single biggest crop implication from the 2002 FSRI Act is the reduction in the soybean loan rate that lowers soybean area planted and increases soybean prices. Even this impact is small, averaging less than 0.75 million acres over the 2002 to 2010 period. The addition of a National Dairy Program does bolster milk returns in the short run, but when the program expires the positive effects are nearly offset by lower longer-term milk prices.

The continuing trend of decoupled subsidies with no supply controls is engrained in the FSRI Act. The CCPs help reduce the downside price risk for U.S. agriculture while the market loan rate provides protection from exceptionally low prices. If world production continues to be large, keeping world prices low, U.S. producers will continue to produce because of loan rate protection. There is potential for competitors to feel greater price pressure, and countries with the deepest pockets will be best protected. Given the program parameters, perhaps of greater importance long term is the small chance that the U.S. could be in a position to violate the WTO spending limits.

### References

