Michigan Inheritance Tax Reform Takes First Step -- Finally

Calling it a definite step in the right direction, but asking for eventual elimination of Michigan’s Inheritance tax that would be replaced by a federal “pick-up” tax, Gov. Engler recently signed S.B. 1, to begin a significant reduction of Michigan’s “death tax.” The bill includes an eventual $50,000 exemption for all estates and an exemption on real and personal property for family-owned farms and businesses, announced Engler. “I want to stress that today’s action is only a beginning and I renew my commitment and my urging to the Legislature to pass more of their hard-earned possessions on to their families instead of the state.

“We want to make sure that our family farm enterprises can pass from one generation to the next without the tax man interrupting the operation to stay in business,” explained Engler. “We’re literally talking about situations where it was time for the next generation to take over the farm to be literally dismantled by Michigan’s inheritance tax.”

Under provisions of the bill, Michigan taxpayers could save as much as $51 million in inheritance tax payments over the next four years, according to state estimates. The bill gradually increases the amount of the exemption allowed for transfers to close relatives from its current $10,000 exemption to $50,000 by the year 1995.

“It’s a mixed blessing in some ways,” said Engler. “While we’re celebrating this legislation, Michigan is only catching up with what other states have already done. It took too long to get this, but I’m delighted it’s finally in place.”

Memorial Day Freeze Will Last All Year For Many Producers

For many people, Memorial Day meant an extra day off from work and an extended weekend. For fruit producers along Michigan’s west coast fruit belt, it meant several nights of the worst and latest frost that many could recall, which cut yield potential and will force producers to rethink planned purchases this year.

“In my lifetime of farming, I have never seen a freeze this late,” said MFB Board member Jim Miller, a fruit producer from the Coloma area. “We had fruit as big as the end of your thumb that was frozen solid. We were looking at the best crop we would have had in five years before the frost.”

According to MSU Cooperative Extension Service’s Crop Advisory Team field reporters, damage was widespread but varied. In Southwest Michigan, after lows of 20 degrees, apple damage was reported scattered and concentrated in inland areas on lower fruit sites.

Stone fruits, which tend to be on higher ground, escaped damage in most areas. Southern Berrien County was in better shape than the northern half. Frost damage was more extensive in grape with estimated 50 percent of the vines damaged.

“It’s a multi-million dollar loss, to say the least,” said Al Mandigo of Van Buren County. Mandigo, who has over 400 acres of strawberries, blueberries, apples grapes, cherries and asparagus, said that apples and grapes were the hardest hit, while blueberry damage was very spotty.

The Grand Rapids area received four nights of frost, with temperatures ranging between 20 to 32 degrees in the orchards. Significant fruit damage was reported throughout the district, with many fruits showing checks, cracks and considerable discoloration.

Three consecutive nights of temperatures in the low to mid 20s in the West Central area resulted in significant frost damage. In Oscoda County, the fruit crop doesn’t appear as bad as originally thought, according to CES reporters. The newest assessment is 1/2 to 2/5 of a crop left. Further north, cherries, peaches, and apricots were not hurt as badly as apples.

In Northwestern Michigan, CES reporters called frost damage in the area the worst in 20 to 30 years, according to grower memory. Plums were the hardest hit, completely defoliated at the worst sites. Poor apple sites with early varieties were significantly damaged also, while some of the later varieties faired much better on good sites.

Sweet cherries were substantially injured, depending on site and bloom stage. Tart cherries did fair better, but certain orchard sites were severely injured. Reporters in that area are estimating that it will be some time before accurate crop estimates can be made, but noted a great deal of size variability in sweet and tart cherries due to the frost and uneven development.

Southeast Michigan fruit farms located in an east/west band with Flint at the center, were hardest hit. Apples received the greatest amount of injury, with fruit loss in the range of 80 to 100 percent. Cherries, peaches, blueberries, and plums were also injured. Grape shoot death occurred in the range of 40 to 80 percent.

Vegetables

The development of vegetable crops also slowed because of the frost. Irrigation remained active throughout the month of May. The asparagus harvest is reported 60 percent complete, with several pickings lost due to the frost. Celery planting was also slowed due to the frost, with development of the crop reported 5 to 7 days behind normal.

Below, Van Buren County farmer Al Mandigo inspects damage to his grape vines which were turned brown by the frost. The vineyard in the background also suffered severe frost damage, eliminating hopes for any grape harvest this year.

Field Crops

There were several reports of yellow corn due to the frosty and dry conditions, according to the Michigan Agricultural Statistics Service. Corn that was emerged is showing the signs of stress with 43 percent of the crop currently rated good to excellent.

Soybeans are feeling the impact of cold temperatures, with emergence behind last year and the five year averages. Wheat development was well behind last year. Only 5 percent of the wheat reported headed as of June 1, compared to 45 percent for last year. Alfalfa yields are also reported down due to the cold and dry weather.

Replanting of corn, soybeans and sugar beets were not uncommon, with sugar beet replanting due primarily to dry conditions and resultant poor germination. However, replanted sugar beet acreage, thus far, was considerably less than last year.
The Bush administration has ruled that biologically altered food products will not require Food and Drug Administration approval unless a totally new substance has been added, or the composition of a food has been altered enough to raise safety concerns. This decision clears the way for the marketing of bioengineered fruits, vegetables, oils, and grain products without the intrusive and expensive process of FDA approval, according to spokesmen for the biotechnology industry.

Brokers say the decision will make investors more favorable to backing bioengineering projects, from sweater tomatoes to longer-lasting peppers, leaner pork and healthier cooking oils, as well as drought-resistant grains and insect-resistant cotton.

The index of prices received by U.S. farmers for their products in May was unchanged from April, but was down 6.6 percent from May 1991. Higher prices in May for hogs, milk, soybeans and broilers were offset by lower prices for grapefruit, tomatoes, onions and cattle, USDA said in its monthly agricultural prices report.

USDA said fresh apple prices in May continued a trend of record monthly highs which began in September. Most field crop prices were down or remained unchanged from April, except those for hay, soybeans and sunflowers. Most livestock and livestock product prices were up from the previous month, except those for beef, cattle, steers, heifers, calves, sheep and eggs.

The index of prices paid by farmers for commodities and services, interest, taxes and farm wage rates for May was 6.6 percent lower than a year ago, USDA said. Lower prices for tomatoes, hogs, cattle and potatoes helped push the index down, but they were offset by higher prices for wheat, milk, corn and soybeans, USDA said.

USDA Raises Farm Export Forecast to $41 Billion

U.S. farm exports in fiscal 1992 (Oct.-Sept.) are forecast at $41 billion, the second-highest level on record, but was down 6.6 percent from May 1991. Higher prices in May for hogs, milk, soybeans and broilers offset by lower prices for grapefruit, tomatoes, onions and cattle, USDA said in its monthly agricultural prices report.

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Comprehensive National Energy Policy Act

MFB Contact
Al Almy, Ext. 2040

House Resolution 776 passed by the U.S. House of Representatives and a separate bill passed by the Senate last November, both are intended to determine policy for further discussion to resolve differences between the two packages. Included in the House bill are provisions to streamline the process for licensing nuclear power plants, relieve independent oil and gas producers from Alternative Minimum Tax requirements, and make state action to limit natural gas production in order to raise prices illegal.

It also establishes electric efficiency standards, promotes greater competition in electrical generation, toughens standards for government buildings and promotes renewable energy sources such as ethanol.

Neither bill mandates domestic oil production nor would allow drilling in the Arctic National Wildlife Refuge. The House also defeated (211-198) an amendment that would have mandated that all fuel sold in the U.S. be blended with ethanol.

North America Free Trade Agreement (NAFTA)

MFB Position
MFB sent a letter to Michigan Congressmen and the U.S. Trade Representative asking the U.S. Trade Representative to oppose any efforts to phase out tariffs on both processed and fresh asparagus in less than 15 to 20 years.

MFB Contact
Al Almy, Ext. 2040

Representatives from the United States, Canada and Mexico continue to negotiate on the terms of a NAFTA. The negotiators were instructed to complete their work by June 5. This date may have been impossible to meet because of several major issues. Congress must approve any agreement before it would become effective.

MFB has received reports that the proposed NAFTA may establish a short or intermediate time period for a phase-out of tariffs on processed asparagus and a longer phase-out period of tariffs on fresh asparagus.

A letter addressing this report was sent by MFB to the U.S. Trade Representative and Michigan Congressmen who represent asparagus production areas. The letter explained the large initial cost of establishing asparagus plantings before realizing income and the several years required to recover the initial costs. It also noted that only 10 percent of Michigan asparagus is marketed as fresh and 90 percent is marketed as processed product.

MFB was subsequently informed that the U.S. Trade Representative had placed both processed and fresh asparagus on the "super sensitive" list, which would result in a long phase-out period of tariffs. U.S. negotiators will now attempt to retain the "super sensitive" listing in the final NAFTA.

Ethanol Regulatory Roadblocks

MFB Position
Farm Bureau has written to EPA and testified before a House Agriculture Subcommittee to oppose the ethanol regulatory roadblocks.

MFB Contact
Al Almy, Ext. 2040

Congress amended the Clean Air Act in 1990 and included new provisions to reduce air pollution. In passing the amendments, Congress clearly understood that agreement that ethanol-blended gasoline would benefit from increased market opportunities in both the oxygenated fuels program for carbondioxide nonattainment areas and the reformed gasoline program for ozone nonattainment areas.

However, recent actions by the Environmental Protection Agency will establish a regulatory roadblock to the use of ethanol-blended gasoline in clean air nonattainment areas. The letter notes the Clean Air Act now requires oxygenated fuels in carbon dioxide nonattainment areas and the reformed gasoline program for ozone nonattainment areas.

Congressman Fred Upton (R-St. Joseph) and 44 other Congressmen have written to EPA to urge removal of the regulatory roadblocks against ethanol.

The substitute version of HB4719 passed the full Senate in late May. The bill now goes back to the House for conference committee to work out the differences between the two versions.

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Commercial Drivers License - CDL Seasonal Waiver

MFB Position
Support
MFB Contact
Ron Nelson, Ext. 2043

Senate Bills 943 and 944, sponsored by Sen. McNamar, passed the Senate and are awaiting House action. The bills would implement the federal waiver which allows seasonal agricultural employees to operate smaller vehicles, trucks, and pick-ups, up to 180 days without obtaining a CDL.

The bill, as amended, provides exemptions for the period of April through June and September through October or 180 days from the time the individual requests the waiver.

The federal optional waiver is in response to the unique needs of agriculture for seasonal operations of agribusiness and water management, designations as many hazards to transport of hazardous material or the operation of combination vehicles such as semi's or the large truck and trailer combinations.

Budget Appropriations for Fiscal Year 1992-93

MFB Position
Supports adequate funding for agriculture programs, particularly for food-inspection, food quality, weights and measures and adequate funding for education.

MFB Contact
Ron Nelson, Ext. 2043

Most of the appropriation bills have passed both Houses with substantial differences and will now move to conference committee to work out the differences between the two versions.

It's anticipated that further revision will be made to a number of budgets because of revised estimates in revenue, which is approximately $150 million more than earlier anticipated. Current estimates place next year's revenue at approximately a 6.1 percent increase over current year.

As the budgets are debated in conference committees, there may be amendments to several budgets to reflect the revised revenue estimates. These revisions may encompass several or most of the budgets for agriculture and higher education.

Biological Diversity

MFB Position
Support
MFB Contact
Vicki Pontz, Ext. 2046

Rep. Jerry Bartnick (D-Temperance) sponsored H.B. 4719, which calls for conservation of biological diversity in the state in order to avoid the loss of plant and animal species. The goals of the legislation include determining whether there are any biological diversity considerations when land and water management decisions are made.

The bill would ask several state agencies to identify questions, concerns and issues related to biological diversity across a range of resource management practices and recommend alternatives to current practices. Under the bill, a two-year legislative committee of three members each from the House and Senate would review reports from departments and devise a recommended state strategy for conservation of biological diversity.

The bill defines biological diversity as the full range of variety and variability within and among living organisms and the natural associations in which they occur. It includes ecosystem diversity, species diversity and genetic diversity.

Farm Bureau offered several amendments to the bill to clarify that the legislation is non-regulatory and to ensure that economic studies and sound science are included in any future state strategy to conserve biological diversity. Other Farm Bureau amendments will ensure that someone from the House or Senate Agriculture Committee is included on the study committee, and that the committee must also report on the costs, benefits, and implications of the strategy on human habitat. Farm Bureau asked that the committee consider the effects of conserving biological diversity on agriculture and forestry.

The substitute version of HB 4719 passed the full Senate in late May. The bill now goes back to the House for concurrence.

No-Fault Automobile Insurance

MFB Position
Because of the mandated rate reduction and rate restrictions contained in this substitute, Farm Bureau does not support Senate Bill 692.

MFB Contact:
Darcy Cypher, Ext. 2048

On May 20, the Michigan Senate approved a No-Fault Automobile Insurance substitute to S.B. 692. This substitute, introduced by Senator Koivisto, contains reforms to limit lawsuits, allows consumers to choose the medical coverage they need and can afford, and sets controls to prevent medical costs from rising.

The substitute mandates an 18 percent rate reduction and restricts the way companies can price their products by enactment of standards for establishing territories and loss ratios.

The substitute received bipartisan support in the Senate. The bill is also expected to receive bipartisan support in the House when it is taken up.
Michigan Farm News 1992 Ag Expo Extral

June 15, 1992

An abnormally strong arctic air mass settled over the Great Lakes region in late May resulting in frosty and freezing temperatures between the 25th through the 28th. The real extent and degree of damage from the freezing temperatures were highly dependent on location.

Besides the record cold temperatures the last week of May, abnormally dry conditions were prevalent across the state. Precipitation totals since April 1 are now running 2-3 inches below normal in many northern and western sections of the state.

Unfortunately, the newest National Weather Service 30-day outlook indicates a continuation of drier than normal weather for most of the areas.

Rainfall is forecast to remain somewhat below normal over but mostly in the western sections of the Lower Peninsula, where near normal amounts are predicted. Temperatures for the 30 days are expected to be near normal over all but eastern sections, where the readings may trend above normal.

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Midwest Crop Updates - Moisture Concerns Getting Serious

Ohio - Soybeans were rated 1 percent excellent, 55 percent good, 30 percent fair and 3 percent poor as of June 1, according to the Ohio Agricultural Statistics Service. Corn was reported 79 percent emerged, compared to 95 percent in 1991 and was rated 13 percent excellent, 55 percent good, 29 percent fair, and 3 percent poor.

Wheat was 84 percent headed, compared to 80 percent of that same period last year, and was rated 7 percent excellent, 44 percent good, 33 percent fair, 13 percent poor, and 2 percent very poor. Topsoil moisture supplies were 5 percent surplus, 70 percent adequate and 25 percent short.

Indiana - Corn height averaged 6 inches and was rated 3 percent excellent, 36 percent good, 48 percent fair, 12 percent poor, and 1 percent very poor. Soybeans were rated 2 percent excellent, 39 percent good, 47 percent fair, and 12 percent poor.

Wheat was 78 percent headed, compared to 91 percent for the same time last year, and was rated 1 percent excellent, 24 percent good, 46 percent fair, 22 percent poor, and 7 percent very poor. Topsoil moisture was 7 percent surplus, 41 percent adequate, and 52 percent short.

Illinois - Cool weather and dryness were causing considerable concern for row crops. Soil moisture supplies were 72 percent short, 24 percent adequate and 4 percent surplus. Soybeans were rated 36 percent good, 56 percent fair, and 8 percent poor. Corn was rated 1 percent excellent, 30 percent good, 59 percent fair, and 10 percent poor.

Iowa - According to the Iowa Agricultural Statistics Service, corn emergence was well ahead of 1991's level of 64 percent, and was rated 4 percent excellent, 50 percent good, 43 percent fair, 2 percent poor, and 1 percent very poor.

Soys were 97 percent planted, well ahead of 1991's 43 percent level, and was rated 8 percent excellent, 56 percent good, 38 percent fair, and 2 percent very poor. Topsoil moisture supplies were 3 percent surplus, 51 percent adequate, and 46 percent short. Subsoil moisture was 9 percent short, 85 adequate and 13 percent surplus.

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Canadian Rockies/Calgary Stampede

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Our package includes round trip jet transportation from Chicago, first class or deluxe hotel accommodations, 20 meals, all sightseeing and admissions, and a professional guide. Member price is $2,469 and nonmember price is $2,669.

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30-Day Outlook Temperatures Normal With Below Normal Rainfall

Michigan Weather Summary

5/1/92 to 5/31/92

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A-Above Average, B-Below Average, N-Normal

Outlook, Temperatures Normal With Below Normal Rainfall

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October, 1992

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July 1-12, 1992

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Brochure Request Form

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Call Farm Bureau Member Services P.O. Box 4577 East Lansing, MI 48826 or e-mail 1-800-748-4289

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Michigan and Major Commodity Area

Extended Weather Outlook

T - Temp. 6/15 6/30 6/15 6/30
P - Precip. 6/15 6/30

- Michigan N A B
- W. Corn Belt N A B
- E. Corn Belt N A B
- Spr. Wheat Belt N A B
- Wat. Wheat Belt A B
- Delta N A B
- Southeast A B
- San Joaquin A B

A Above Average, B Below Average, N Normal

Source: National Weather Service

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Michigan Weather Summary

Temperature Dev. From Normal Precipitation

Alpena 52.9 0.8 239 290 1.10 2.76
Houghton 55.9 5.4 306 385 1.37 2.63
Marquette 53.1 0.3 430 495 1.46 2.83
Michigan 57.3 0.0 409 466 1.11 3.01
Muskegon 55.9 0.3 285 367 0.27 2.67
Pellston 57.9 1.0 374 435 0.74 2.63
Saginaw 57.9 0.4 204 264 1.36 3.01
Traverse City 56.0 0.9 301 391 0.69 2.79

A-Above Average, B-Below Average, N-Normal

Source: National Weather Service
### 1992 Michigan Land Survey Results

<table>
<thead>
<tr>
<th>Land Type</th>
<th>Average Price Per Acre</th>
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<th>Expected Change next 12 mo.</th>
<th>Change in Land Supply</th>
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The major determinants of land values, according to survey respondents, were believed to be non-farm development potential, alternative production practices, and the P.A. 116 program, which according to Hanson, have struck some nerves of would-be property sellers for development purposes across the state.

"Several farmers would tell you that P.A. 116 is holding down their land values, because the program eliminates any non-agricultural uses of the land, but that was the original intent of the law," explained Hanson. "The law is actually working the way it was supposed to."

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*These new plans are guaranteed issue no matter what your health history, locally serviced by our 69 county offices and 400 agents statewide, and competitively priced to save farm owners and operators hundreds or even thousands of dollars off their health insurance bill. So, if you're a solo proprietor or if you have one or more employees, you should call Farm Bureau today for benefit and rate information.*
Dr. Jim Hilker, Dept. of Agricultural Economics, MSU

**CORN**

Not much is happening on the use side of the corn market, but as all of you have been watching, the weather has been whipping around the projected supply side of the corn market pretty regularly.

And if early June moisture conditions across the Corn Belt have not improved by now, the roller coaster action in the corn pits is likely to continue more up than down. If the weather does continue to improve, the market will likely still roll, but the roller coaster action will also be accompanied by some decreases in corn crop ratings, as well as increases lower than year ago levels.

Actual corn exports are hardly running enough high to make the USDA projections. However, corn sales have picked up and should cause actual shipments to pick up. At this time, it appears that total U.S. corn exports for the 1991-92 marketing year will reach the USDA projection of 1.5 billion bushels. A projection of 2.0 billion bushels was made in June 1991.

Farmers enrolled 61.9 million acres into the USDA corn program for 1992. Of this, 5.2 million acres will be idle due to set-aside requirements. Of the 92.9 million acres, 15 percent will not receive deficiency payments due to the flex provisions.

To put this in perspective, farmers intended to plant 79 million acres of corn. This means there are a lot of acres not receiving deficiency payments. This obviously increases the significance of your price decisions.

**WHEAT**

The USDA has announced a 0 percent wheat set-aside for 1993. This was in the range of expectations and therefore, was not an immediate market mover. It shows the USDA feels we are not only in a fairly tight supply situation now, but that we could be in that situation through the 1993-94 crop marketing year, i.e., two years out.

The crop conditions for wheat in early June were below year ago levels for both spring and winter wheats. As yield reports come in from Texas and Oklahoma, and soon Kansas, for the old crop, we can get a better handle on the supply situation.

If the lower crop ratings turn into actual lower yields than last year, there will be room for considerable upward price movements, particularly in the winter wheat. Winter wheat supplies could be tight by the end of the season.

At this point, U.S. export sales for the 1992-93 crop year have been quite disappointing, but the USDA only projected them down 4 percent in the May wheat Supply/Demand Report.

It appears, given the above information, that there is more upside potential in the wheat market than downside risk. This is primarily due to the ability of the long-term weather markets yet in front of us.

Still own a large percentage of your 1991 production. Export shipments have slowed down as we head into the Christmas Christmas wheat futures move into the $3.70 range and/or cash forward contracts move over $3.50, depending where you are located.

**SOYBEANS**

Soybean futures, as of early June, were offering a weather premium that would suggest a 1992 yield 1-2 bushels below normal. This is probably slightly more upside price potential than down, but no strong upside price movement.

As yield reports come in from Texas and Oklahoma, and soon Kansas, for the old crop, we can get a better handle on the supply situation.

**HOGS**

We are probably at or past the seasonal peak of hog prices this year. While there are some indications that the increase in the breeding herd has peaked, we will still be seeing a lot of big for the rest of the year.

The USDA Quarterly Hogs and Pigs Report will be released on June 30 and should give us a clearer picture. On the one hand, sow slaughter is up, indicating producers are not increasing herd size, but on the other hand, prices recently have been better than expected, raising optimism in some areas of the hog sector.

Keep very current on ready hogs as we proceed into a declining price period. At the same time, watch for price rallies in the fall futures to lock in some of your opportunities at this time as futures re-

**DAIRY MARKET**

Michigan Producers Should Expect Super-Pool Consequences of $40 Per Cwt. Less

Larry Hamm, MSU

The Michigan milk price outlook has the proverbial good news-bad news aspect to it. The fundamental national market conditions are leading to rising milk prices. On the other hand, the suspension of over-order pricing in Michigan will dampen the revenue increases to Michigan producers.

Commercial demand for dairy products is increasing after the disappointing results from 1991. Per capita consumption of dairy products declined 6 pounds to 565 pounds per person in 1991.

Fluid milk and American cheese consumption was virtually unchanged from 1990, while other cheeses and ice cream increased 1991 consumption. Butter consumption continued to decline even in the face of mounting prices in the wholesale market of butter. Frozen yogurt sales also slipped significantly.

For the first three months of the year, the retail milk sector showed a sales increase of 3.2 percent, or 1 billion pounds, over the January through March period of 1991. All main dairy products, excepting the exception of cottage cheese, are showing year-to-year consumption gains.

The renewed growth in dairy demand is running head long into a stagnant milk supply. For the first one-third of 1992, U.S. milk production is stable. Increased demand on a stagnant supply means price increases.

The April egg-type chick hatch was down 10 percent from last year and eggs in incubators for hatching on May 1 were down 4 percent. Spent hen slaughter, however, during the first three weeks ending in May, were 8 percent under last year.

In May, table egg prices typically start advancing from their May seasonal lows. Expect egg prices to start strengthening in June, but the average for the month will probably remain the May average of 59 cents per dozen. Table egg prices should continue to move higher during the July through September quarter with an average in the mid-60 cent range.

**CATTLE**

The May 1 USDA Monthly 7-State Cattle On-Fed Report released May 22 showed higher April placements and lower April marketing than expected. There is also some indication that placements in May are up from a year ago, we may finally be beginning to find some of those feeders that we have been looking for since February.

At this point, feeder prices will probably weaken on the summer in a typical seasonal decline. Given a normal corn price level, this fall’s feeder cattle futures contracts are probably a little on the low side. However, there is considerable short-term downside risk due to the moisture conditions across the Corn Belt.

The fed market has more than began the seasonal decline into the summer. In fact, I expect it to stabilize in the $72-$74 per cwt. in the short-run before declining towards $70 in mid-summer. This indicates one should keep current, but has a little time on his hands. Finally, live cattle futures are not offering any good pricing opportunities at this time as futures remain under $70 and fundamentals would suggest prices in the $70-$75 range the October-December period.
July Discussion Topic - Food Labeling Requirements

Nutrition-conscious consumers who want to count the calories or grams of fat in a food product used to have to peer through obscure charts and guides to find the information they were looking for. But no more.

Modern grocery store products are labeled with a sometimes bewildering array of nutritional data. A sure sign that nutrition is here to stay comes from the advertising world. Food processors boldly highlight nutritional data, especially in efforts to lure consumers toward new low or reduced calorie products. Widespread promotion of better eating habits, an obsession with weight andorie products, but the label may convey to the consumer that this particular product has had the fat reduced significantly," Keeling said. "Farmers are interested in making sure the new nutrition labels emphasize clear nutritional issues and not that they get into a "good food, bad food" situation."

Farm Bureau policy is basically in favor of accurate labeling that allows consumers to make informed choices about food products. For example, what exactly should be designated low or reduced fat?

"Under some of the definitions that are being looked at, there would be no way that dairy products could ever be labeled low fat. A reduced fat or a low fat dairy product may have more fat in it than some other products, but the label may convey to the consumer that this particular product has had the fat reduced significantly," Keeling said. "It's important that the FDA move cautiously because the increased cost to consumers from new labels can be significant."

Farm Bureau is moving forward with an aggressive proposal to completely rework food labeling requirements. The USDA is voluntarily moving along in tandem with FDA. "The thinking at USDA is that, if we don't do this, there physically were not enough label printers in the U.S. and enough time left to have all the labels reprinted by the deadline," said Keeling. "It's important that the USDA move cautiously because the increased cost to consumers from new labels can be significant."

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Tom Reed, general manager, Michigan Live Stock Exchange, speaking on the "Role of the Marketing Company." Saturday's agenda includes a tour with three stops scheduled, including one at a cow-calf operation, another at a background operation where 604 pounds are brought in and put on grass until they're sent to feedlots in the fall, and finally a stop at a Chippewa county buffalo operation.

Saturday's events will conclude with a luncheon sponsored by the Chippewa and Mac-Luce County Farm Bureaus. For more program and registration information, contact the Michigan Cattlemen's Association office at (517) 669-8589. Hotel registrations are due July 1, with program pre-registration due by July 6.

VanDamme, who operates a 400-acre potato and small grain farm, and serves as Haymarket County Farm Bureau President, was considered instrumental in getting a number of different commodity interests working together to achieve a "common ground" resolution to the county's road weight restriction issue.

VanDamme is the first recipient of the "Volunteer of the Month," which will continue to be selected from nominations made based on what the individual has done locally for the agricultural industry.

FARM BUREAU DAY at TIGER STADIUM

Saturday, August 29
Game Time 1:05 p.m.
Detroit Tigers vs. Kansas City Royals
$8.50/seat

You can order tickets by contacting your county Farm Bureau office or by filling out the form below and sending it to Michigan Farm Bureau.

If you are a member in one of the following counties, be sure to call your county farm bureau office and to ask for your membership card to receive our discounted pricing:

- Allegan, Antwerp, Barry, Bay, Calhoun, Charlevoix, Cheboygan, Chippewa, Copper Country, Emmet, Gladwin, Haymarket, Ingham, Ionia, Iron Range, Isabella, Kent, Livingston, Mac-Luce, Manistee, Midland, Montcalm, Montmorency, Otsego, Presque Isle, Shiawassee, and Tuscola.

Please note: If the original block of Tiger tickets is sold out, we may not be able to fill every order for you.

To order Farm Bureau Day at Tiger tickets, complete this order form and mail to Michigan Farm Bureau, Attn: Mike Kovacic, P.O. Box 3990, Lansing, MI 48909. Order DEADLINE is August 1, 1992. Enclose your check or money order made payable to Michigan Farm Bureau. Tickets are $8.50 each.

Name:
Address:
City/State/Zip:
Number of Tickets:
AMOUNT ENCLOSED (TOTAL)
MFB’s Summerfest and Ag Expo - A Great Combination!

It’s going to be a celebration at Farm Bureau Center in Lansing on July 15, starting at 3 pm. The festive Summerfest event includes a grilled steak dinner with all the trimmings, cold drinks, apple pie and other sweet treats, games, vintage tractors and country music. To get an added extra during your trip to Ag Expo, send in your ticket order form today along with a check or money order before the June 30 deadline. There’s just 2,500 tickets available, sold on a first come first serve basis. See the order form on page 2 of the regular Michigan Farm News Summerfest ad!

Ag Expo ’92 will provide the MFB Family of Companies an opportunity to showcase their many products and services to an expected 50,000 farmers who will attend the three-day trade show. The theme for this year’s MFB big tent display will be, “Farmers -- Professionals From the Ground Up!” The 60’ x 90’ red and white striped tent will be located on our traditional lots in the heart of the Expo grounds at the corner of Second Street and Avenue D on lots 248, 249, 348 and 349 (see map on page 6).

Under the big top, members will find Farm Bureau staff ready to answer questions on everything from health care to custom diesel fuel. In addition to the many products and service, booths featuring member involvement programs, and special informational booths staffed by Public Affairs Division and state agency resource people, will be included in this year’s display.

Don’t miss the most exciting spot on the Expo grounds – the Farm Bureau Family of Companies display!

Keep Farm Life Safe for Kids

A farm is a great place to bring up children — but it can also be a hazardous place. One child in four in the U.S. is involved in an accident of consequence each year, and accidents are the leading cause of death among children.

On the farm, the danger is magnified—because children there are exposed to more workplace hazards and often begin lending a hand with work at an early age.

A primary danger is the close proximity of farm hazards to the farm home environment. Unlike other children, farm children face virtually the same occupational dangers their parents face. They need only take a few steps from their homes to find heavy machinery, toxic chemicals, and potentially dangerous storage areas.

What’s more, many children do the work of adults, facing the same dangers—but often without the same knowledge, experience, and physical strength.

Parents and caregivers must take responsibility for reducing risks to children by teaching them about safety hazards, supervising the work young people do, and making sure they get the best possible care if injury occurs.

Here are some recommendations for keeping children safe on the farm:

- Educate youngsters about the dangers of farm equipment.
- Keep firearms, chemicals, medications, matches, and tools inaccessible to children.
- Keep play areas free of hazards—and enclose play areas for preschoolers.
- Teach children to swim, but don’t let them swim without the presence of a responsible adult.
- Before allowing children to bike on public roads, make sure they know the rules of the road and can handle a bike capably. Be sure the bike is in good condition and has the required lighting and safety devices.
- Make grain bins, the shop, animal quarters, silos, and chemical storage units off limits to children. Lock and bar entry. Remove the keys from motorized equipment to prevent children from starting it.
- Train and supervise young people until you are sure they can do a chore or job safely.
- Encourage young people to take part in safety activities sponsored by local youth organizations and schools. Involve them in hazard hunts around the house.
- Don’t allow children to be near animals and pastures unless supervised by adults.

Why not the best insurance for your farm?

When you work hard to run a quality farm operation, don’t cut corners where it really counts — on your insurance.

Farm Bureau Mutual Insurance Company of Michigan introduced the first Farmowners policy in the nation in 1960. We were the first and we’re still the best.

We offer customized protection, fast claims service, and people who know the insurance needs of Michigan farmers. With Farm Bureau Mutual, you know you’re getting top quality protection from Michigan’s largest farm insurer.

You may find better ways to run your farm, but you won’t find a better way to insure it. Call your Farm Bureau Insurance agent today.

Making your future more predictable.
The field demonstrations during Ag Expo, July 14-16 at Michigan State University, will feature a variety of methods to control weeds in row crops.

Ag Expo’s 35-acre main exhibition site will be open from 9 a.m. to 5 p.m. each day. It will feature more than 300 farm equipment and supply exhibitors from more than 20 states and Canada. The 30-acre field demonstrations will focus primarily on weed control in residue-laden cropland.

"We will show farmers how new equipment designs and management practices can help reduce crop protection costs," says Tim Harrigan, Ag Expo field demonstrations manager.

About a dozen manufacturers will be involved in the field demonstrations. They will operate equipment in conservation tillage and no-till fields in which crops have been planted. About 30 acres will be used for the field demonstrations.

No-till cultivation equipment will be demonstrated in chisel-plowed corn residue. Automatic guidance systems will also be demonstrated under a variety of field situations.

The demonstrations will let farmers compare the effects of equipment design, sweep, shovel and point selection for a variety of cultivation practices and requirements.

Demonstration plots will show the effect of seven weed control methods in corn and soybeans:

- No herbicide, no cultivation
- Broadcast herbicide, no cultivation
- Broadcast herbicide, one cultivation
- Broadcast herbicide, two cultivations
- Banded herbicide, one cultivation
- Banded herbicide, two cultivations
- No herbicide, two cultivations

Harrigan says the field demonstrations are intended to help farmers decide which practice will be the most economical for them.

"One of the main reasons for renewed interest in mechanical weed control is to reduce production costs," he says. "If herbicide costs can be reduced or yields increased, cultivation may be a wise economic decision. Reduced herbicide use may also help curtail potential for groundwater contamination. However, row crop cultivation takes time and costs $3 to $4 per pass over a conventional seeder, and residue management can be a problem in conservation-till fields.

"During the field demonstrations, we want to look at the economics of all of these practices and help farmers decide which practice to follow," Harrigan says.

Before coming to Ag Expo, Harrigan encourages farmers to consider the following when reviewing the field demonstrations:

- Cultivation controls weeds, breaks up and aerates crusty soils and improves water infiltration. This can increase yields about five percent on fine textured soils.
- Herbicide use can be cut by two-thirds when placed in 10 inch bands over the row. Yields between the row can then be controlled by cultivation.
- Today’s cultivators can be used to side-dress fertilizers and band, spot or broadcast pesticides.
- Equipment improvements make it possible to cultivate in conservation and no-till residue.

What We’ve Learned From You About Us

by Bill Bickert, Ag Expo Chairperson

Just being a part of a major farm show is pretty important to the folks we talked to during Ag Expo last year in a poll that asked farm families why they attend. There is a variety of reasons why they attend Ag Expo, Michigan’s largest agricultural equipment exhibition. We gathered comments from about 270 farm families to find out why important Ag Expo is to us, our third such poll.

Farmers’ primary reason for attending Ag Expo is to obtain information that they can use back home. About a third of those attending were looking for information about a specific product. Nearly 70 percent of the farmers polled said that Ag Expo is becoming more important to them as a source of information for their buying decisions and planning for the farm business.

We learned that farm families travelled an average of 79.5 miles to attend Ag Expo and that the distance travelled ranged from 3 miles to 500 miles. Farm families came mostly from southern Michigan but also from Ohio, Indiana, and Ontario, Canada.

Everyone said Ag Expo should continue as a show for farmers and that is our purpose. Ag Expo is intended as a place for farm families to be among their counterparts in agriculture who have at heart the well-being and continuation of the farm business.

Ag Expo has become something of a tradition among farm families. On average, visitors have attended Ag Expo four or more times since it began in 1980. Of the group polled, 56 percent do not attend other major farm shows and of those who have, 88 percent rated Ag Expo equal to, or better than other farm shows.

The 35 acres that constitutes our main exhibition site will be brimming with millions of dollars of farm equipment, supplies, and services; the only place in Michigan where such an array can be seen. We intend to enable visitors, in an enjoyable setting, to make evaluations, develop ideas, and talk with industry and university experts about opportunities to improve the farm business.

In addition, there will be a variety of demonstrations, displays and information available in “education” row. This is a series of exhibits representing MSU’s departments of agricultural engineering, animal science, crop and soil sciences, fisheries and wildlife, water research, public safety, veterinary medicine, etc. Representatives will be available to answer questions about farm security, crop production, education programs, human and animal health care, water quality, and other aspects about the farm business.

Admission is free, and visitors are required to use the parking facilities at Farm Lane and Mt. Hope Road. The show hours are Tuesday and Wednesday from 9 a.m. - 5 p.m. and Thursday, from 9 a.m. - 4 p.m. Free wagon shuttles will be available to take you from the parking area into the main exhibition site. The boarding station is located on the north side of the main parking lot.

We are confident you will enjoy a trip to Ag Expo because of its variety in a safe, clean, and friendly environment.

The Expo officially opens at 9 a.m. on Tuesday, July 14. Hours are from 9 a.m. to 5 p.m., Tuesday and Wednesday, and from 9 a.m. to 4 p.m. Thursday.

Ag Expo Food Services

There will be a variety of food and plenty of it at the main exhibit site, including grilled chicken sandwiches, submarine sandwiches, roasted sausage, hot dogs, pizza, cold/ hot beverages and ice cream from vendors that will be on the grounds daily. All of the food services will be in a food court near Tent C, at the north edge of the grounds.

Make plans to stop at the MFB center on Wednesday afternoon, July 15, for the best meal deal in town at the annual Summerfest event for just $4. Be sure to get your Summerfest tickets now, since sales are limited to the first 2,500 purchased.

Expo participants will once again be able to make in-field side-by-side comparisons during the field demonstrations, and talk with over 300 exhibitors at the main MSU exhibition site.

Guidance systems make it possible to cultivate at higher speeds, with greater precision and less operator fatigue. Harrigan estimates that the field demonstrations, round trip, will take approximately an hour and a half, with buses departing for the first of five stops every 15 minutes. The demonstrations will run from 10 a.m. to 5 p.m. on July 14 and 15 (Tuesday and Wednesday) and 10 a.m. to 4 p.m. July 16.

All of Ag Expo’s activities, parking and transportation services are free.
The Role of Cultivation in the 1990’s Expected to Grow

Francis J. Pierce, Associate Professor, Crop and Soil Sciences Department, Michigan State University

Historically, one of the greatest time- and labor-consuming operations in the production of crops is the control of weeds. Mechanical cultivation or tillage has traditionally been an important method of controlling weeds. Chemical weed control replaced mechanical methods as the primary control strategy, although cultivation remained as an important supplement to herbicides. It is not uncommon for farmers to cultivate after application of broadcast herbicides.

The widespread use of herbicides is currently a major environmental concern. There is a renewed interest in the use of mechanical methods as the primary control strategy, although cultivation remains as an important supplement to herbicides. Mechanical cultivation or tillage has traditionally been an important method of controlling weeds. Chemical weed control replaced mechanical methods as the primary control strategy, although cultivation remained as an important supplement to herbicides. It is not uncommon for farmers to cultivate after application of broadcast herbicides.

Herbicides are controlling weeds in the crop row. A combination of band application of herbicide in the row and cultivation can be very effective and economical and is gaining in popularity. Rotary hoeing can be very effective for early post-emergence cultivation of any crop rows. They run directly over the row, uprooting small, tender weeds and breaking any soil crust that might be present.

There are, however, considerable uncertainties associated with sole reliance on mechanical strategies for weed control. There are also constraints to the use of mechanical weed control that must be addressed by farmers. Specifically, these include soil and water conservation and timeliness.

Timeliness is the critical factor in effective weed control. Cultivation controls weeds by uprooting, covering, or cutting off weeds. The timing of mechanical control must match the most vulnerable stage of weed development while avoiding injury to the crop.

Farmers may be reluctant to rely on mechanical control strategies due to the narrow window for cultivation created by wet conditions. They are also concerned with effectiveness of mechanical control, labor availability and lack of information on equipment adjustment and operation for the variable weed spectrums and soil conditions on their farms.

The year 1995 brings Conservation Compliance to the implementation phase. The farm plans developed during the early 1990’s must be in place by 1995. The Conservation Tillage Information Center estimates that the acreage in conservation tillage must double nationally by 1995 to meet conservation compliance.

Effective conservation includes rotation and management of crop residues on or near the soil surface to control soil erosion to acceptable levels. This means that mechanical control may be inappropriate for certain soil and crop conditions.

For others, cultivation must be able to handle high crop residue conditions and different levels of soil workability determined by the degree of tillage prior to planting. For example, band applications of herbicides may be possible in no-tillage but the cultivator must be able to operate in high residue conditions in a firm soil. In addition, in order to meet the timeliness issues raised above, cultivators and rotary hoes may need to operate at much higher speeds than presently recommended for current equipment designs.

Summary

The role of cultivation in the 1990’s is changing and the following statements characterize the role:

• Environmental concerns over the use of herbicides will increase the interest in mechanical weed control, particularly cultivation.

• Increased use of cultivation will result from the potential for increased profitability by adjusting weed control strategies in general, including the use of crop rotation, post-emergence chemicals and the use of cultivation. For example, the costs of herbicides in sugar beets has motivated band application plus cultivation the preferred weed control strategy.

• Mechanical weed control will be tempered by the need for the management of crop residues for erosion control and the need to meet conservation compliance by 1995.

• To meet the timeliness and conservation requirements, successful cultivation will require increased information on the adjustment and operation of cultivators and new designs to handle crop residues and variable soil conditions as well as higher operating speeds.

• Total reliance on mechanical weed control strategies is currently limited in use. However, considerable attention should be directed as the extent to which this may be possible in current and future cropping systems.

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Control the accuracy of your grain drying this year with DMC’s Calc-U-Dri grain drying controls. Calc-U-Dri adjusts your dryer’s metering rolls to go faster or slower according to the actual moisture of the grain. Or, Calc-U-Dri can automatically pause the metering rolls when grain has not had a chance to dry long enough. Calc-U-Dri eliminates the need to overdry grain since you know the actual moisture of the grain as it is being dried. In fact, some farmers have paid for their Calc-U-Dri in only one year from fuel savings and less shrinkage loss.

Find out how to make your grain drying "truly" automatic and save money at the same time.

Call your nearest Michigan dealer for more information!

Visit the DMC Exhibit at Ag Expo, Lot #156

TOYOTA QUALITY
WHO COULD ASK FOR ANYTHING MORE!
Costs of Owning and Operating Cultivation Equipment

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Width</th>
<th>Hp</th>
<th>Price OW/yr</th>
<th>Price OWN/yr</th>
<th>Tractor ownership cost $/yr</th>
<th>Operating $/Acre</th>
<th>Total $/Acre</th>
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<td>12,000</td>
<td>157</td>
<td>0.37</td>
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</table>

| Band Sprayer** (Planter Mounted) | 4-row | 300 | 4.2 | 2,350 | 280 | 0.04 | 1.20 |
|                                  | 8-row | 650 | 6.4 | 3,650 | 540 | 0.08 | 2.90 |
|                                  | 12-row | 900 | 12.7 | 5,850 | 860 | 0.13 | 3.60 |

| Rotary Hoe | 15'   | 60  | 300 | 10.2 | 3,500 | 430 | 157 | 1.21 | 3.55 |
|            | 20'   | 90  | 400 | 13.6 | 4,800 | 590 | 236 | 1.05 | 3.10 |
|            | 30'   | 120 | 600 | 20.4 | 10,000 | 1,230 | 314 | 0.82 | 3.40 |

| Row Cultivator (Conventional) | 4-row | 50  | 300 | 4.6 | 3,000 | 370 | 287 | 2.50 | 4.70 |
|                                | 6-row | 75  | 450 | 7.0 | 3,400 | 420 | 343 | 1.88 | 3.75 |
|                                | 8-row | 95  | 600 | 9.2 | 4,800 | 590 | 546 | 1.56 | 3.45 |
|                                | 12-row | 150 | 900 | 13.9 | 5,600 | 785 | 732 | 1.29 | 3.26 |

| Row Cultivator (No-Till, Ridge-till) | 4-row | 60  | 300 | 4.6 | 6,200 | 760 | 345 | 2.72 | 4.40 |
|                                     | 6-row | 90  | 450 | 7.0 | 8,200 | 1,010 | 518 | 2.10 | 5.50 |
|                                     | 8-row | 120 | 600 | 9.2 | 10,500 | 1,290 | 690 | 1.80 | 5.10 |

Selected Weed Control Practices on Michigan Farms

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<tr>
<th>Method</th>
<th>Corn of Acres</th>
<th>Sugar Beets of Acres</th>
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<td>Pre-Emerge Broadcast</td>
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<td>Pre-Emerge Banded</td>
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<td>Post-Emerge, Broadcast</td>
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<tr>
<td>Row Cultivate One Time</td>
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<tr>
<td>Row Cultivate Two Times</td>
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Source: MSU-AES Research Reports 506 and 507, 1990

Michigan Farm News 1992 Ag Expo Extra!

June 15, 1992

Costs of Owning and Operating Cultivation Equipment

In a 1990 survey of Michigan cash crop and sugar beet farmers, more than 50 percent of the cash crop farmers and 20 percent of the sugar beet farmers reported leaving more than 30 percent residue from the previous crop on the soil surface after planting. They also reported that weed control was their most difficult problem when managing residue in a conservation tillage system. Row crop cultivation equipment designed for moderate and high residue conditions can be used successfully in conservation tillage fields. The table above indicates the annual costs of owning and operating selected herbicide application and mechanical weed control equipment.

Source: MSU

There has been renewed interest in row crop cultivation on Michigan farms during the last few years. Row crop cultivation controls weeds, breaks up and aerates crusted soil and improves water infiltration. Banding herbicides over the row and cultivating between the rows can often reduce herbicide use and cost by 50 percent. Yield increases in the range of 5 percent not related to weed control in cultivated versus uncultivated corn and soybeans are not uncommon. A well designed tillage and weed control program that includes row crop cultivation will make an important contribution to the profitability and sustainability of Michigan farms.

Featured Companies

American Made Quality at Its Best!

See the Difference on Wheat

Increase wheat yields now is the time to treat wheat with ACA to gain your advantage. ACA can be impregnated on your fall starter fertilizer or topdressed in the spring to boost your yields.

Michigan 1991 Yields

ACA-treated wheat had an average increase of 4.68 bu/acre with the highest yield increase at 7.82 bu/acre.

See the Benefits of ACA

Better root systems
Healthier Plants
Easier Harvesting
Increased Profits
Increased Yields
Proven Performance

Be a Winner with ACA.

To see the difference apply ACA with anhydrous, liquid 28% N Liquid Starter, impregnated on dry or sprayed.

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These prices already reduced 20%
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Lansing, MI 48911
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Governor's Inn
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Sheraton Lansing Hotel
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Quality Inn
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Knights Inn-South
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Lansing, MI 48911
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Lansing, MI 48910
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Michigan Farm News 1992 Ag Expo Extra!
June 15, 1992

Routes to Ag Expo
The most direct routes to Ag Expo '92 are by the way of Trowbridge Road or the Jolly Road exits from I-496/U.S. 127. The exits are marked with the star-shaped figures. If you are approaching Lansing from the north, take the Trowbridge Exit. If you are coming from the south, take the Jolly Road Exit.

DIRECTIONS VIA TROWBRIDGE ROAD EXIT. Travel to Harrison Road, remaining in the far right lane of eastbound traffic. Turn right onto Harrison Road. Go to the second stop light (Mt. Hope Road) and turn left. At the next traffic signal (Farm Lane), turn left proceeding into the Ag Expo parking lot.

DIRECTIONS VIA JOLLY ROAD EXIT. After exiting, turn east to Collins Road, and proceed north on Collins Road, east on Forest (past the Swine Research Center) to Farm Lane. North on Farm Lane to the Ag Expo parking lot (just past the traffic signal).

Easier Grain Handling with the GRAIN DAMPER™ Flow Control System

on Augers or Grain Legs

- Stops Grain Velocity, stopping grain spilling
- Maintains auger and conveyors easier
- Reduces wasted grain and cleanup time
- Increases loading grade by holding a constant of grain in the GRAIN DAMPER™
- Available in:
  - 8" size @ $86.85
  - 9" size @ $99.85
  - 10" size @ $112.95
  - 12" size @ $185.00
  - 14" size @ $248.00
- Plus UPS Shipping Charges.

- Satisfaction Guaranteed and One Year Limited Warranty. U.S. Patent # 2,971,228.

on Combines

- Grain flow is straight down from GRAIN DAMPER™ at all engine speeds making loading trucks and wagons easier. Stays the grain velocity of the grain but does not change volume of bushels per hour.
- Closes off tight to stop grain loss and dribble when changing from wagon to wagon or traveling through the fields.
- Fits JOHN DEERE combine models 6620 thru 6850 and 6940 thru 7040
- Fits IH combine models 1420 thru 1440 and CASE IH combine models 1620 thru 1860
- Price for the combine GRAIN DAMPER™ is $225.00 plus UPS Shipping Charges.
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**The Single-Step Planting, Incorporating and Finishing Tool from McFarlane**

The Se-Seeder exceeds your expectation by combining our 1 Bar Flexible Harrow, and the Gandy Orbit-Air® Applicator for:

- Simultaneous planting, incorporating of pre-applied chemical and field finishing.
- Air delivery system spaces seeds evenly - more room to grow!
- Ideal for soybeans and grain crops
- More than a seeder! Harrow is ideal for weeding, leveling, seed prep and more!

See it at the Michigan Ag Expo July 14-16, Lot: 710 & 711

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**WATERSTOVE**

This is the safest, most efficient wood heat system on the market today; which sits outside and heats your entire house plus domestic hot water!

- UL Listed
- Thermocouple Control
- 12 to 24 hr. burn time

**SEE THE EX-SEEDER America's First Harrows!**

**CUT HAY THE DISC WAY!**

Gehl has two new all-disc mower conditioners to cut your crop down to size, fast and easy. The DC2340 has 7 discs and a 9-foot cutting width; the DC2360 has 8 discs and a 10 1/2,foot cutting width.

- **High speed discs**—Each disc has two knives to slice through the toughest crops and conditions; the disc gear drive operates in an oil bath for long life.
- **Sturdy frame**—Cradles the extruder for extra protection and durability.
- **540 or 1000 rpm** drive line with equal-angle hitch for disc positioning.
- **Standard hydraulic tongue**—Makes it easy to position the unit without leaving the tractor seat.

**Michigan Farm News 1992 Ag Expo Extra!**

June 15, 1992

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**GEHL**

1259 South Water Street
P.O. Box 577
Sauk City, Wisconsin 53583
800-627-8569 • 608-643-3321

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Michigan Farm News 1992 Ag Expo Extra!
Tailor Crop Cultivation to Match Your Tillage Operation

Row Crop Cultivators
Row crop cultivators designed for a prepared seedbed and little crop residue may be suitable for reduced tillage conditions in some cases. A rolling cultivator or 5-tine cultivator may work well if the residue cover is not too heavy, if the ground is not too rough and if the soil is not too hard. An example of a situation where a conventional row crop cultivator might work well in a reduced tillage system would be lightly tilled soybean residue in a loam or sandy-loam soil.

In heavier residue where soil penetration may be a problem, conventional row crop cultivators will not work well. Heavy duty 5-tine cultivators with higher ground clearance, a heavier shank and frame and a longer gang assembly with a time configuration designed to improve residue flow have been designed for moderate residue conditions.

S-tines work well at 5 to 7 miles per hour. The S-tines vibrate in a tight circular pattern improving the soil mixing action. S-tines work well at 5 to 7 miles per hour. The S-tines vibrate in a tight circular pattern improving the soil mixing action.


Machinery Economics
Cultivation benefits must be balanced against the additional equipment costs, labor requirements and the risk of unexpected weed control problems if the cultivation is not done on a timely basis.

Example: A six-row, conservation tillage, row crop cultivator will cost about $4,600. Annual ownership costs which include depreciation, interest (real interest at 6 percent), insurance and shelter, will be $565 per year over the 10 year expected life of the implement. Tractor ownership costs based on the hours spent cultivating 450 acres will be $431 per year. Operating costs, which include labor, fuel, repair and maintenance will be $1.91 per acre. The total ownership and operating costs for six-row cultivation will be $4.10 per acre for the first pass over the field. If adequate labor is available and the savings from decreased herbicide use and potential increased yields is greater than $4.10 per acre, row crop cultivation may be a wise economic decision. See AEIS 597, The Costs of Owning and Operating Weeding and Residue Flow Equipment, for more information.

Equipment Tips
- Improve residue flow with higher ground clearance, coulters to cut heavy residue and longer gang assemblies with wider spacing between coulters.
- Improve soil penetration with C-shanks and larger, heavier frames.
- Vibrating tines improve weeding and residue flow at higher speeds.
- Guidance systems and stabilizing disks improve precision around curves and on hillsides.
- Fully covered and open sidewall crop shields protect small plants and prevent topsoil loss from low cultivation row. Rolling, spiked wheels and rotary hoe wheels protect the crop from heavy residue but allow some soil to flow into the row.
- Increasing the depth or speed of cultivation increases the amount of soil moved and the amount of residue buried.

Row Crop Cultivators
Row Crop Cultivators
Row Crop Cultivators
Row Crop Cultivators
Row Crop Cultivators
Row Crop Cultivators
Guidance Systems Make Cultivating Quicker and Easier

A new cultivator "quick hitch" guidance system from Sukup Manufacturing features a unique, hydraulically-adjusted top link design combined with wand row-sensing and electronically controlled hydraulics.

The Sukup AUTO GUIDE system offers improved user controlled sensitivity as well as faster hydraulic adjustment of the top link. The new system also allows electronic signals from the wand to operate hydraulic valves which move the steering cylinders in the hitch.

The AUTO GUIDE system can be used with most of today's rear mounted conventional or high residue type cultivators. There are three main components in the AUTO GUIDE system:

- **Two Way Wand Sensor** - Steel fingers sense offset just one row for small crops, or between two rows for larger crops. The wand unit mounts separately on the cultivator toolbar.

- **Power Top-Link, 3-pt. Quick Hitch** - Includes two cylinders that pivot the tool bar, allowing the stabilizing coulters to steer the cultivator. A third cylinder moves the top link of the hitch ahead or back to control cultivator lift and penetration.

- **Electronic Controls** - A sophisticated, but easy to use, control box in the cab incorporates today's most advanced electronic technology. In "manual" position, the hitch will center itself. The "automatic" position can be used to control right or left side draft of the implement. A needle monitor showing hitch position, and a sensitivity control are just two of many other features of the control.

Sukup's new SLIDE GUIDE guidance system features a full 20 inches of side-to-side movement, with field proven electronics and a rugged yet lightweight design. The SLIDE GUIDE is ideal for use on pull-type implements and equipment with pivoting coulters. It may also be used on tractors with either open-ended or closed center hydraulics.

Four sensing options are available with the SLIDE GUIDE including either a one-row wand, a two-row wand, chain style for planters (optional) and wheel style for ridges (optional). All Sukup SLIDE GUIDE units are tested, pre-calibrated and come equipped with Pioneer couplings so they're ready for immediate use.

For more information on either of the Sukup guidance systems, contact Sukup Manufacturing Co., Sheffield, Iowa 50475, or phone them at (515) 892-4232.

More Profits Are In The Bag With Alfa-Save.

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These Farmers are Committed to the Ridge Till System

The Lauwers, who farm 2,500 acres in St. Clair County, have had success with ridge till in corn and soybeans for eight years. Now they have their sights set on making it work in sugar beets as well!

The soil conservation movement has caused many farmers to abandon conventional tillage for more ecological/economical methods. Although the trend has been toward no-till, some farmers believe the ridge till is a better way to go.

Rich Lauwers, his wife Carol and sons, Mark and Mike, who farm 2,500 acres in St. Clair County, have used ridge till on corn and soybeans for the eight years. Last year, working with the Michigan Agricultural Stewardship Association (MASA), he compared conventionally tilled sugar beets and ridge tilled sugar beets.

"Most of the time, it's hard to improve on soil that hasn't been touched in the spring, especially in a ridge," Lauwers said. "We knew what good condition the soil was in when we planted corn and soybeans on a ridge, so we thought we'd try it with sugar beets."

It was a logical step for Lauwers, since he owned the cultivator necessary to build the ridges for his corn and soybeans. He had also made the modification necessary to use it on his planting and harvesting equipment. He was ready to tackle two of the problems faced by sugar beet farmers, lack of moisture and wind.

Lauwers points out that conventional tilled soil dries out much faster and usually the sugar beet seed won't germinate until after it rains. The ridge tilled soil holds the moisture better and as for the wind problem, "The wind doesn't bother that old row as much as it does the tilled area," he explained. "Sugar beets are really vulnerable to dirt sifting across and cutting them off."

The ridge tilled sugar beets worked out well for Lauwers. The difference showed in the yields. With the ridge tilled area yielding an extra 1.8 tons an acre. "We were satisfied. We ridge tilled beets on some pretty heavy soil," he said. "They grew as good or better than where we tilled right next to it. I was really surprised that there was that much of a difference."

All said and done Lauwers figured the ridge tilled sugar beets netted him an extra $57 an acre. The cost was a little higher on the ridge till on the ridge because of the extra herbicide needed, but Lauwers doesn't see this as a problem. "I feel better using Roundup than I do dragging something across the field with a four wheel drive tractor and see the dirt blow away," he said.

One problem with sugar beets is that the ridge is destroyed during harvest. Lauwers son, Mike, explained how they worked around it. "We plant no-till in the spring where the beets were and start building the ridges again during cultivation." Then they have ridges throughout the rest of the rotation.

One major concern with ridge till is what to do with the headlands. Instead of worrying about driving over the ridges, some farmers no-till, others leave the headlands fallow. The Lauwers take it all in stride and ridge till the headlands too. Mike explained, "We don't build the ridges as high and we go real slow."

The movement toward no-till has led Lauwers to do a field project comparing ridge till to no-till in corn and soybeans. Working again with MASA, he will do side by side testing of the two methods over a number of years. "There's not a lot of people doing ridge till," he said. "Maybe we're wrong and want to compare numbers over several years."

According to Jerry Grigar, from the Soil Conservation Service, there were only 12,000 acres ridge tilled in 1990, dropping to 10,220 in 1991. He sees the biggest factor affecting farmers using ridge till in the cane the lower. The high residue cultivar for needed for ridge till is specialized, expensive and only good for ridge till. On the other hand, farmers can buy no-till planters quite cheaply and if they don't work out the way they had planned, the planters are easily converted for conventional tillage, says Grigar. "Ridge till is something you can just jump in and out of," he said. "It requires a commitment."

Although Lauwers has made the commitment to ridge till, he plans to continue working with MASA to make sure he's doing what's best for the soil. His deep interest in soil conservation and sustainable agriculture is the key. "We were primarily motivated to begin looking at sustainable agriculture out of a desire to leave the land in better shape than we found it."

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Land owners and farmers may find the program attractive because of secure 10-year contracts for prevailing rental payments, wildlife benefits and environmental benefits.

A voluntary program, producers may apply for enrollment at Agricultural Stabilization and Conservation Service Offices during the next enrollment period, June 15 - 26, 1992.
Understanding the Ridge Till Management System

Ridge till systems are similar to no-till systems since they both reduce field work to planting, chemical application, and harvesting. The Conservation Technology Information Center (CTIC) maintains that ridge till systems have all the cost reduction and erosion benefits of the no-till systems with the added advantage of a lot of crop residue, temperature and moisture problems associated with no-till.

In ridge till systems, crops are planted on permanent ridges, 4 to 6 inches high, that are formed and maintained during summer weed cultivation. CTIC warns that proper selection and installation of the attachments is necessary to ensure that all equipment will ride in the valleys between the ridges and not damage them. Stabilizing attachments are available to keep the equipment on track, but CTIC does not believe they are generally needed except on contours and slopes. If proper care has been taken from planting through to harvest, the ridges will keep through the winter and be ready for spring planting.

While planting, the soil is prepared by one of a number of different tillage attachments which clean the tops of the ridges of any crop residue. Some of the more popular attachments are the sweep, the horizontal disk, the staggered and notched disk furrowers or just a plain disk furrower. The residue is swept into the valleys between the ridges where it is broken up by cultivation and cannot hinder the growth of the new crop as it can in no-till.

A ridge till cultivator is designed to build and maintain the ridge for the next year's crops as well as breaking up the previous year's crop residue and displacing weeds. CTIC points out that most of the seeds from weeds and previous crops are swept into the valley during planting and aren't a problem in the row. However, a preemergent herbicide is typically banded over the row at planting for grass control and sometimes a "burn down" herbicide is needed before soybeans because of the later planting date.

Application of fertilizers depends heavily on the soil texture. According to the CTIC, nitrogen applied to two to three weeks after planting has been the most successful in fine textured soils, while in coarse textured soils, the applications are usually split between planting or early cultivation and late cultivation.

Corn reportedly responds best when phosphorus and potassium are banded 3 to 6 inches deep near the row. CTIC suggests application on the ridges be made during planting or in the fall with tool bars equipped with coulters and fertilizer openers. Fall application has been reported the most successful for fine textured soils or soils with poor internal drainage. The results have not been consistent on banded application of Phosphorus and Potassium on ridge tilled soybeans.

The CTIC points out that ridges serve several purposes other than separating crop and crop residue. Ridges tend to maintain a higher temperature in the spring and water saturation is not as big a problem.

Jerry Grigar, from the Michigan Soil Conservation Service, lists many other benefits to ridge till including controlled field traffic, reduced pesticide use, reduced equipment cost, reduced wind and water erosion and a safer environment for the plant.
Michigan's latest field crop, canola, has been pushed by scientists, seed companies and high-tech manufacturers who cite valuable health benefits associated with the oil crop. Calling it the oil crop of the future. On the production side, however, canola is walking the fine line between fact and fiction.

Conflicting stories are told by canola advocates and farmers who have had bad experiences with canola. Several bad years of production and market experiences have prompted many to question canola and its future in Michigan.

Dr. Larry Copeland, canola researcher at MSU, has seen canola grow from just under 100 acres in 1988 to almost 9,000 in 1991. He believes there's considerable interest in developing canola as a crop, but he doesn't see it as the wonder crop of the future. "I'm not going to tell you that it's the best crop to grow," he said. "I think there's a good crop to grow in rotation with other crops. Canola can and will fit in."

Copeland sees two major disadvantages for canola in Michigan right now. Most importantly, the myths and biases regarding canola and handling problems. "Some people call canola a weed," he said. "They say they have all the weeds they want on their farm already." Copeland says he has heard all the stories, and he laughs at them because he considers them issues of light conversation associated with problems.

Copeland says the stories that canola is impossible to plant, handle or harvest are unfounded. "That is not a problem," Copeland maintains. "Yes, the seed is small and does flow freely. Yes, if you have large gaps in your truck, it'll blowout. But it's a land maintains. "Yes, the seed is small and impossible to plant, harvest, handle or cause he considers them issues of light conversation associated with problems.

Copeland admits that shattering is seen as a big problem in canola production. "Canola tends to shatter quite easily," he said. "Even under normal shattering conditions, it looks a lot worse than it actually is. The fact is, some will shatter on the ground and germinate but they can be controlled by cultivation or herbicides."

BARRY COUNTY FARMER TOT GUTHERIE had problems with shattering in his canola but attributes the severity to lack of experience on his part. "The second year our yields were down because of wind damage; it shattered, shook to the ground," Guthrie explained. "I think it was that we didn't know enough about it or have the experience. If we had the chance to do it over again, I think that we would be in the field a week before we were and not had as much injury or late spring injury due to freezing."

Even though there have been a lot of problems recently, Copeland tries to remain optimistic about canola in Michigan. "Our climate is pretty much dominated by the Great Lakes, and having water all around us moderates both our winter and summer temperatures," he explained. "Compared to areas around us, we are characterized by cool seasons. We have less fluctuations, which makes Michigan's weather conditions perfect for growing canola."

Economically, Copeland says Michigan is in a good position, too, because of the two processing plants located in Canada. ADM is in Windsor, while Can-Ameri is located 100 miles farther east at Hamilton. "We're relatively close to the processing plants, and of all the states, we have the most favorable position for marketing canola," he concluded.

Copeland has high hopes for canola, and believes the crop has the potential to develop into a very important Michigan commodity. "Canola went from almost nothing to as high as 8 million acres in the provinces of Canada," he stated. "A lot of seed people see that same scenario developing in the United States. Whether or not that happens is yet to be determined. I certainly think there is a niche for it in Michigan."

Canola Production a Learning Process

Clifton County farmer Bob Kissane has had a lot of bad luck with his canola, but he isn't ready to totally give up on the crop. "I don't know that I'll have enough canola to plant next spring," he said. "I don't think this sentiment is shared among the farmers who have had bad experiences with canola."

Kissane originally became interested in canola as a way to fill in for his soybeans. "I had hoped to plant 100 acres of canola and 100 acres of wheat each year," he explained. "I farm alone and it would be easier to do that if I didn't have to do everything at once."

Even after the run of bad luck with canola, Kissane still thinks he'll plant around 20 acres this fall, a very small portion of the 1,000 acres that he farms. "I've learned a lot about canola," he said. "I think I could grow it and have a good stand if the weather cooperates."

He doesn't think this sentiment is shared with many farmers in his area. "A lot of people tried it once, had a bad stand and process will determine what happens to canola in Michigan. "What the future holds for canola depends on how much enthusiasm farmers continue to have for the crop." He's concerned that producers will make decisions based on unusual weather, which has been resulting in a number of bad experiences with canola in the last year and a half.

Copeland attributes unusually high temperatures early last spring for a bad canola yield in 1991. Cold temperatures this spring, says Copeland, have ruined about 3,000 acres this year. "We had some early growth apparently, coming out of dormancy, then some more cold weather," he explained. "The bottom line is, if you had a lot of winter injury or late spring injury due to freezing."
Barry county farmer Tom Guthrie is getting ready to harvest his third canola crop. He's a farmer who likes canola and believes it works well in his crop rotations.

In 1988, he participated in the dairy buy-out program and began to look for ways that he could diversify his farm. "It was about the time that canola was just getting talked about in the state," he explained. "I watched it for a few years and read about it, and then talked to a farmer in northern Barry County who had grown canola for a couple of years." After that discussion, Guthrie made the decision to give canola a try.

Guthrie doesn't regret his decision. "I've had very good results with it," he said. "Compared to wheat, it was definitely a much better income crop that year and it was very comparable to soybeans." His first crop did so well for Guthrie that he referred to it as a "learning experience. "It still wasn't an experience that was discouraging or defeating," he said. "All things being equal and yields being normal, I think canola competes right along side of soybeans. It can be a crop of equal value, plus it provides opportunities for flexibility." The flexibility is what appeals to Guthrie the most about canola, which allows him to diversify and spread his workload out. "Part of my operation is custom work," he explained. "When we get into soybeans in the fall, it's quite demanding. If I can get some of my own fields done in July, by harvesting canola instead of soybeans, then it frees up time in the fall."

Guthrie hasn't had problems with marketing either. "I market my canola directly to Michigan Agricultural Commodities," he said. "They buy it from me at a farm pickup price. They provide the truck, they pay for hauling and they do the export paperwork and all the other paperwork. I just haven't had any problems."

Although a lot of people have sat back to watch and wait, Guthrie decided to take the advice of just getting into it and doing it. "We'll continue to improve canola," he said. "But I can't see from my experience why an individual should wait for that to happen before he starts getting some experience under his belt."

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Scouting for First Generation European Corn Borers
Doug Landle and Mike Haas, Entomology, MSU

Last year’s severe infestation of European corn borer (ECB) has convinced most growers that this is a pest that needs to be watched for in 1992. Scouting individual fields is the only way that producers can make good decisions regarding ECB management.

Corn borer populations vary greatly from year to year and from field to field. Growers need to pay special attention to earlier planted (taller) fields because they are frequently more attractive during first generation egg laying. In most of Michigan, the European corn borer has two generations per year. This article focuses only on scouting for first generation borers.

Description of Life Stages

Scale-like, rounded eggs are laid in masses, up to 1/4-inch long, on the underside of corn leaves near the mid-vein. Each egg is about the size of a pinhead; they overlap much like fish scales. Although whitish when first laid, they darken and form a definite dark spot (the head of the larvae) just before hatching. Newly hatched larvae (or borers) are about 1/16-inch long. They have smooth whitish bodies, black heads, six small legs near the head, and five pairs of feathery legs (prolegs) near the tail. Full-grown larvae range from 3/4- to 1-inch long, vary in color from gray to creamy white and have numerous prominent dark brown or black spots. Adults are pale yellow to light brown with wavy lines on the wings and have a wingspread of about one-inch.

Damage

Whorl feeding produces the “shot-hole” type of damage typical of early first-generation borer damage. As the larvae mature, larvae leave the whorl to tunnel into the stalk of the corn plant. This weakens the plant and can result in reduced yields and lodging. While whorl feeding has no significant effect on corn yield, an average of one borer per stalk reduces yield by approximately 5 percent.

Scouting and Economic Thresholds

Moth numbers and flight periods can be monitored using blacklight or pheromone traps. Growers can obtain information on when to time scouting activities from alerts issued by county agents.

First generation - Begin sampling when the first larvae are sighted in your area or when corn is 16-22 inches in extended leaf height. Choose five random locations of the field and check the whorl leaves of 20 consecutive plants in each area (100 plants/field) for feeding damage. Keep a count of damaged plants in each area and record this number. Damage is evident as either white spots, “shot-holes”, or broken leaf midribs. Then choose two damaged plants in each of the five areas (10 plants/field) and examine them for larvae. Grab the top of the whorl and pull it out of the plant, unroll the leaves and look for whitish larvae with four spots per segment and black heads.

Count the number of live borers found and record this number. For any plant in which three or more live borers are found, additional borers in a plant do not significantly increase damage. In which three or more live borers are found, additional borers in a plant do not significantly increase damage. If you find no borers in damaged plants, they may have already tunneled into the stalk, and it is too late to control them with insecticides. Alternatively, natural enemies may have killed the larvae leaving only damaged plants but not borers.

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Beginning farmers may get a break if a young farmers’ farm credit bill continues to move through the legislative process. It recently passed by a vote of 19-0 in the House Agriculture subcommittee, and is expected to go before the full committee before the July recess. "This important legislation is designed to help the next generation of farmers and ranchers carry on the outstanding tradition of production and stewardship that the current and past generations have provided," Farm Bureau said in a submitted statement.

Other provisions would make limited changes in the Farm Credit System and would impose a 15-year limit on the length of time an individual can participate in any combination of FmHA direct and/or guaranteed farm operating loan programs. "As a general policy, Farm Bureau does not support the extension of subsidized agricultural credit," Murray said. "However, in the case of young farmers and ranchers who face enormous obstacles in getting started in the current high capital type of modern agriculture, we do have a policy that supports special programs maintained to deal with the problems of young farmers trying to get established in farming." Recent studies have shown that there are twice as many farmers over age 60 as under age 30, and many of these older people plan to retire during the next decade. "What we are attempting to devise is a blueprint for the future of rural America and a reasonable hope that those who choose farming and ranching as a way of life have the means to do so," English said.

USDA Announces 1993 Wheat Acreage Set-Aside of Zero Percent USDA has announced a zero-percent acreage reduction program for 1993 crop wheat, along with a commitment to use its export promotion programs to sell the expected large supply, according to Knight Ridder News. USDA also announced the 1993 price support loan rate for 1993 crop wheat would be $2.45 per bushel, up from $2.21 for 1992 production.

USDA chose a zero-percent ARP, which it previously estimated could lead to a 2.415-billion bushel crop, "to ensure sufficient supplies of U.S. wheat for domestic and export needs," USDA Secretary Edward Madigan said in a statement. By law, USDA could have set an ARP of up to 15 percent, and even considered a "no-set-aside" option that would have allowed more acres into production than a zero-percent program. However, the no-set-aside plan was universally rejected by producers because they would lose certain guaranteed crop disaster subsidy payments.

The National Association of Wheat Growers officially recommended a 2.5 percent ARP, but said they could support a zero-percent program if USDA pledged to aggressively use its subsidy and credit programs to export wheat. Madigan seems to have taken the hint.

"We want our farmers to recognize the commitment to exports behind this decision," he said in the statement. "We will continue to be a reliable supplier of wheat and we will sell that wheat into world markets.

"Financial Help for Beginning Farmers Possible Through FmHA"

Rep. Glenn English (D-Okla.), chairman of the committee’s credit panel, introduced legislation (H.R. 4906) that would improve the operation of the Farm Credit System and make it easier for new farmers to get loans.

H.R. 4906 would establish an emphasis on beginning farmer programs and a new procedural framework for FmHA lending.

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The small supply, according to the National Association of Wheat Growers, "to ensure sufficient supplies of U.S. wheat for domestic and export needs," USDA Secretary Edward Madigan said in a statement. By law, USDA could have set an ARP of up to 15 percent, and even considered a "no-set-aside" option that would have allowed more acres into production than a zero-percent program. However, the no-set-aside plan was universally rejected by producers because they would lose certain guaranteed crop disaster subsidy payments.

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