American agriculture is in the midst of a “great transition.” Agriculture as we have known it, with family farms and viable rural communities, is being rapidly transformed into an industrial agriculture, with factory farms and dying rural communities. Such times of change are times of great risks but also times of great opportunity. There are no guarantees of survival or success. But, an understanding of the forces of change can be quite helpful in coping with the risks of change and in realizing the opportunities. The forces driving change in American agriculture today are the continuing forces of industrialization.

The industrialization of agriculture is not a new phenomenon. The trend toward specialization, standardization, and consolidation – toward industrialization – began around the turn of the 20th century, with the mechanization of agriculture. However, the chemical technologies that emerged from World War II, particularly commercial fertilizers and pesticides, accelerated the industrialization process. Until recently, the most obvious consequence of this process had been larger farms, fewer farms, and fewer farm families. But, farmers and families, real people, were still making the decisions concerning what was produced, how it was produced, who it was produced for, and they considered how their decisions might affect the land and their neighbors.

Until recently, the specialization, standardization, and consolidation of farming had been driven by the decisions of individual, family farmers. Farmers freely chose to adopt the new mechanical and chemical technologies, many of which were developed through publicly supported research, because they seemed to promise increased profits. These technologies invariably promised greater production efficiency, which would reduce cost per unit of production, leaving the farmer with a wider profit margin. Increased efficiency generally meant that each farmer could produce more than before, in fact, needed to produce more to justify the new technological investment and to realize the full benefit of the new technology.

However, the “early adopters” were the only farmers to realize increased profits. As more and more farmers adopted a new technology, a new kind of machine or agri-chemical, total production invariably increased, because each farmer now was compelled to produce more. The new technologies allowed farmers to reduce costs per unit, but only if they produced more units. With increased production, market prices invariably fell, leaving even the innovators no better off than before. The later adopters rarely had a chance to recoup their investment before prices fell and profits were gone. In cases where the government supported commodity prices, land prices rose instead, with the same net effect on profits. Eventually, technological adoption was motivated by survival rather than profits, and those farmers who adopted too late didn't survive.

Some farmers had to fail so others could expand – could farm more land or produce more livestock – in order to realize the full benefits of the new technologies. In fact, prices invariably
stayed low enough long enough to force enough farmers out of business to accommodate the
new industrial technologies. And, after each “technological adjustment” was complete, there
was always another round of technology waiting for adoption. Chronic crisis and continuing
farm failures have been a necessary consequence of agricultural industrialization.

The current “corporatization” of agriculture is but the final stage of the industrialization process.
As the new technologies have required larger and larger operations to justify the new
investments, capital requirements have exceeded the credit capacity of all but the largest of
individual farmers. Many farmers have formed family corporations to enhance their ability to
raise investment capital. Increasingly, however, only the “publicly owned” corporations are able
to meet the agricultural capital requirements of an increasingly industrial agriculture.
Economists now proclaim corporate contracts as farmers’ only means of gaining access to the
technology, capital, and markets they will need to be competitive in the 21st century. Most of the
land and basic production facilities are still owned by individual farmers and family
corporations, but production increasingly is carried out under direction of giant agribusiness
corporations.

The industrialization and corporatization of American agriculture has been supported by
government policies – including government farm programs and publicly supported research and
education programs. The overriding objective of such policies has been to increase the
efficiency of agriculture for the ultimate benefit of consumers, in the form of lower food prices.
The political rhetoric in support of family farming has continued; but government programs
obviously have supported continued specialization, standardization, and consolidation, which
have ensured the demise of the family farm.

At the signing of the new “Farm Security and Rural Investment Act of 2002,” the President said,
“The farm bill will strengthen the farm economy… will promote farmer independence, and
preserve the farm way of life for generations.” These same kinds of claims have been made for
every U.S. Farm Bill since the 1930s. Yet, the farm economy has continually floundered and
American agriculture has limped from one crisis to the next. And now, independent family
farmers are becoming a rarity. This new Farm Bill will not do any of the things promised. It
simply continues the policies of the past, which subsidize wealthy landowners and the
agribusiness corporations, at the expense of family farmers. The new Farm Bill won't promote
farmer independence or preserve the farm way of life. It most certainly will not provide for
either “farm security” or “food security,” nor will it improve the lives of people in rural America.

With increasing corporate control of the food system, even those independent producers with
lower cost than the contract producers are finding it difficult to compete. The corporations now
control much of the new technology, particularly biotechnology, to which farmers can gain
access only through contractual arrangements. Large corporate processors increasingly procure
nearly all of their raw materials through contracts, thus denying market access, or at least
denying competitive markets, to non-contract producers. The corporatization of agriculture is
now driven much more by the quest for increased market share and greater market power than
for increased production efficiency.
Family corporations are not all that different from individuals; their decisions reflect the basic values of the family. Even with “closely held” corporations, with few stockholders, decisions can still reflect the basic social and ethical values of the owners. However, once the number of stockholders becomes large, as in large publicly held corporations, and management is essentially separated from ownership, the motives for decision making become profits and growth. Most of the stock in such corporations is owned by mutual funds and pension funds, and the stockholders are concerned foremost, if not completely, with growth in the value of their investment. A corporately controlled agriculture is fundamentally different from the agriculture we have known in the past.

Americans are losing control over American agriculture. Increasingly, the decisions concerning what will be produced, how much will be produced, where it will be produced, how it will be produced, and who will produce it, are being made, not by American citizens, but by multinational corporations. The people who own the land and do the work may still be Americans, but someone else, somewhere else, is making the decisions. For the most part, contractual arrangements determine who makes the decisions, leaving “producers” as little more than landlords, tractor drivers, or hog house janitors, but certainly not with the traditional role of “farmer.”

The agribusiness corporations dictating the terms of these contracts are legal entities but they are not people. They have no families, no friends, no communities, and increasingly, no national citizenship. The people who work for these corporations are real people and are citizens of some nation – with families, friends, and communities. But, once corporate ownership is separated from management, as in the case of most publicly held corporations, the people within corporations have no choice but to serve the economic needs of the corporation for profits and growth. The multinational agribusiness corporations that increasingly control American agriculture have stockholders scattered throughout the world, and thus, have no citizenship.

Increasingly, the multinational corporations will find it more profitable to produce somewhere other than in America. Our land and labor costs are simply too high for America to compete with places such as South America, Australia, South Africa, or China in production of basic agricultural commodities – corn, soybeans, hogs, cattle, cotton, rice, etc. We have higher-paying employment opportunities for our labor and higher-valued residential uses for our land. Eventually, the agribusiness corporations, having no commitment to producing in America, will simply move their operations elsewhere – to somewhere that will give their stockholder a higher return on their investment.

In their struggle to stay competitive in global markets, American producers will feel compelled to accept contractual arrangements that result in the exploitation of both land and people. The industrialization of poultry and hog production, with large-scale confinement animal feeding operations, provides a prime example of such exploitation. These operations consistently pollute the rural environment with odors and waste, yield minimum returns at best for laborers and investors, and drive family farming operations out of business. Even so, many producers see contracting as the only means by which they can maintain access to markets. The same basic trend is already well underway in dairy; and with genetic patenting and biotechnology, corporate control of crop production will soon follow.
Before corporate agriculture abandons America, they will have turned much of rural America into a “third-world” wasteland. Polluted streams and groundwater, abandoned waste lagoons, eroded and depleted topsoil, depleted aquifers, rural crime, a de-skilled workforce, and decaying rural communities; these will be the legacies of the corporatization of American agriculture. Americans will fight back with more environmental rules and regulations, but eventually, short-run economic considerations will prevail. Ultimately, however, the corporations will find it cheaper to produce food and fiber elsewhere in the world. And with a global, “free market” economy, there will be nothing to keep them from moving their agricultural operations elsewhere.

We don't need a lot of data, facts, or figures to understand what is happening to American agriculture; it's just plain common sense. In making agriculture more efficient, we have chosen industrial technologies and methods, which have resulted in fewer, larger farming operations, and now, in corporate control of agriculture. In the process, we have lost both the security of our farms and the food security of our nation. These outcomes are the logical consequences of the objectives and strategies we have pursued. We have sacrificed our security for the sake of efficiency. It's not all that difficult to understand; it's just common sense.

Many economists, however, argue that we need not be concerned about becoming dependent upon the rest of the world for our food. They advise, it is only logical that America moves beyond farming in the new global era of economic development, that we have higher valued uses for our land and labor resources. We will be even better fed at a lower cost, they say, because food can now be produced cheaper elsewhere in the world. But in times of crisis, a nation that can't feed itself is no more secure than is a nation that can't defend itself. Perhaps we won't abandon agriculture completely, but we could easily become as dependent on the rest of the world for our food as we are today for our oil. Perhaps, we can keep our food imports flowing, as we do for oil, but how large a military force will it take, how many “small wars” will we have to fight, and how many people will be killed.

Many consumers, members of the public, seem to agree with the economists. They don't see anything wrong with a corporately controlled, industrial agriculture, and they are not particularly concerned. As long as the corporations can give them food that is quick, convenient, and cheap, they are not going to ask too many questions. They aren't all that concerned about where their food comes from, who produces it, how it is produced, and what the consequences are for rural people and for the land. Many trust the competitive forces of a “global free market” economy to ensure that the needs of society are met.

However, a growing number of people are concerned about the corporate industrialization of agriculture. They are concerned about what it is doing to the lives of farm families who are losing control of land that has been in their families for generations. They are concerned about people in rural communities who have supported and been supported by those family farms. They are concerned about the low-pay and long hours in the food processing factories that have moved into some of those chronically depressed rural areas. They are concerned about the landfills, toxic waste dumps, and giant livestock feeding operations that pollute the once pristine rural environment with dangerous chemicals, biological wastes, and hazardous stench. They are
concerned about the ability of the soil to continue to produce after the topsoil is eroded and it is saturated with chemicals and about the quality of water subjected to similar abuses. They are concerned about the safety of their food and safety of the people who work to produce it. They are concerned about the negative impacts of an industrial agriculture on the people who farm the land, who live in rural areas, who eat the food. They are concerned about those of future generations who will still be as dependent upon the land for their sustenance, their very survival, as we are today. They are concerned about the sustainability of agriculture.

This growing concern for agricultural sustainability is raising some “common sense” questions about our food system. It asks, how can we equitably meet the needs of people in the present, while leaving equal or better opportunities for those of the future – not just how can we make food quick, convenient, and cheap? It asks, how can we develop an agriculture that is ecologically sound, economically viable, and socially responsible – not just how can we make agriculture more economically efficient? It asks, how can we ensure our long run food security – not just our current abundance? Sustainability asks how can we sustain a desirable quality of human life on this earth, individually, socially, and ethically – both for ourselves and for those of future generations?

Sustainable farming systems must be ecologically sound, economically viable, and socially responsible. All three are essential; more of one cannot offset a lack of either of the other two. The three dimensions of sustainability are not a part of some formal or legal definition, but instead, are a matter of common sense. If the land loses its ability to produce, the farm is not sustainable. If the farmer goes broke, the farm is not sustainable. And if a system of farming fails to support society, it will not be supported by society, and thus, is not sustainable. The economic, ecological, and social dimensions of sustainability are like the three dimensions of a box. All are necessary. A box that is lacking in height, width, or length, quite simply is not a box. A farming system that is lacking in ecological integrity, economic viability, or social responsibility, quite simply is not sustainable.

There is growing evidence that current concerns for the sustainability of agriculture are well founded – that a corporate industrial food system, in fact, is not sustainable. The threats to the natural environment and to the quality of life of farmers, rural residents, and members of society as a whole have continually risen as we have industrialized American agriculture. The same technologies that support our specialized, standardized, large-scale farming systems are now the primary sources of growing environmental degradation. Commercial fertilizers and pesticides – essential elements in a specialized, industrialized agriculture – have become a primary source of growing concerns for environmental degradation and food safety. And, industrialization has transformed agriculture, created for the fundamental purpose of converting solar energy to human-useful form, into a mechanized agriculture that uses more non-renewable fossil energy than it captures in solar energy from the sun.

No one set about intentionally to destroy the ecological integrity, social responsibility, or economic viability of American agriculture. We simply lost sight of the fundamental purpose of agriculture, to meet the needs of people – as consumers, as producers, as members of rural communities, and of society. In our preoccupation with making agriculture more productive, we have taken the thinking out of farming; we have degraded the occupation of farming, and
diminished the intellectual, social, and economic rewards of being a farmer. In our
preoccupation with increasing economic efficiency, to bring down the cost of food, we neglected
to monitor what was happening to the overall quality of life of people. In our preoccupation with
increasing production today, we neglected to monitor the ecological legacy we were leaving
those of future generations. We don't need a lot of data, facts, or figures to understand what has
happened to American agriculture; it's just plain common sense.

This time of “great transition” is not unique to agriculture. A new era of development is
beginning to emerge in virtually every sector of modern society. The old industrial era is dying
and a new era of sustainability is struggling to be born. Agriculture is at a slightly different
phase of transformation than is much of the rest of society. The corporatization of agriculture is
the last gasp of a dying age. However, the same basic forces now emerging to create a new
agriculture and a new rural America already are fundamentally transforming much of the rest of
the world. And, those who expect to be successful in this new world of the future, in farming or
in any other occupation, must be both willing and able to think.

Peter Drucker, a time-honored consultant to twentieth-century industry, says this in his book
Post-Capitalist Society:

"Every few hundred years in Western history there occurs a sharp transformation.
Within a few short decades, society rearranges itself -- its worldview; its basic
values; its social and political structure; its arts; its key institutions. Fifty years
later, there is a new world.... We are currently living through just such a
transformation."

The thing most certain about the future is that it will be very different from today. The industrial
era is behind us, and something fundamentally different lies ahead. Although agriculture is still
captured in the grips of industrialization, corporatization is the final phase of the industrial process.
Much of the rest of the developed world already is moving beyond industrialization. The giant
global corporations of today are but an unfortunate remnant of this past era. They exist not
because they are more productive or efficient than other forms of organization, but only because
of the economic and political power they were able to amass when industrialization was in its
prime. Multinational corporations have lost their usefulness and value to society, and ultimately,
must lose their economic and political power.

Noted futurist, Alvin Toffler, in his book Powershift, points out that many forecasters simply
present unrelated trends, such as industrialization, as if they would continue indefinitely. But, by
simply extending trends, they fail to provide any insight of how trends are interconnected or
when and why trends might change. The agricultural press is filled with such forecasts for the
future of agriculture -- simply extending industrial trends into the indefinite future.
Biotechnology and information technologies are presented as nothing more than new tools of
industrialization. But, Toffler contends that the industrial model of economic progress is
becoming increasingly obsolete, and he talks of a new knowledge-based era of development.

Drucker, in his book: The New Realities, talks of the "post business society." He states, "the
biggest shift -- bigger by far than the changes in politics, government or economics -- is the shift
to the knowledge society. The social center of gravity has shifted to the knowledge worker. All
developed countries are becoming post-business, knowledge societies.” Toffler agrees, “the most
important economic development of our lifetime has been the rise of a new system of creating
wealth, based on the mind.” “Because it reduces the need for raw material, labor, time, space,
and capital, knowledge becomes the central resource of the advanced economy,” he writes.

Robert Reich, former Secretary of Labor, addresses future trends in the global economy in his
book, The Work of Nations. He identifies Symbolic-analysts as the "mind workers" of the
future. They include all the problem-solvers, problem-identifiers, and strategic-brokers. They
include scientists, design engineers, public relations executives, investment bankers, doctors,
lawyers, real estate developers, consultants of all types, -- people who earn their living mostly by
thinking. Like Toffler and Drucker, Reich believes that future human progress will result from
symbolic-analysis, from mind work, rather than routine production work or personal services.

Drucker points out an important, fundamental difference between knowledge work and industrial
work. He states that industrial work is fundamentally a mechanical process, whereas, the basic
principle of knowledge work is biological in nature. He relates this difference to determining the
"right size" of organization required to perform a given task. "Greater performance in a
mechanical system is obtained by scaling up. Greater power means greater output: bigger is
better. But this does not hold for biological systems. There, size follows function. It would
surely be counterproductive for a cockroach to be big, and equally counterproductive for the
elephant to be small.” He concludes, that differences in organizing principles may be critically
important in determining the future size and ownership structure of economic enterprises. Other
things equal, the smallest effective size is best for enterprises based on information and
knowledge work. According to Drucker, "Bigger' will be 'better' only if the task cannot be done
otherwise.”

But if the industrial era is ending, why are we seeing the rapid industrialization in some sectors
of the agricultural economy, specifically in hog and dairy production? In Joel Barker's book:
Paradigms, he points out that new paradigms tend to emerge while, in the minds of most people,
the old paradigm is doing quite well. Typically, "a new paradigm appears sooner than it is
needed” and "sooner than it is wanted.” Consequently, the logical and rational response to a new
paradigm by most people is rejection. New paradigms emerge when it becomes apparent to
some people, not necessarily many, that the old paradigm is incapable of solving some important
problems of society. Paradigms may also be applied in situations where they are not well suited,
thus creating major new problems while contributing little in terms of new solutions.

American agriculture provides a prime example of over application of the industrial paradigm.
The early gains of appropriate specialization in agriculture lifted people out of subsistence living
and made the American industrial revolution possible. But, more-recent technological
“advances” clearly have done more to damage the ecological and social resources of rural areas
than any societal benefit they may have created from more "efficient" food production.

Industrialization of agriculture probably lagged behind the rest of the economy because its
biological systems were the most difficult to industrialize. Agriculture by nature doesn't fit
industrialization; it has to be forced to conform. Consequently, the benefits are less, the
problems are greater, it is becoming fully industrialized last, and it likely will remain industrialized for a shorter period.

The increasing corporate control of agriculture today is no longer a reflection of greater efficiency or lower cost of production costs for industrial production methods. Instead, it is a reflection of the ability of the giant corporations to enhance their profits by controlling global markets for agricultural commodities. Corporatization brings a century of agricultural industrialization to its logical conclusion, spelling the impending end of the agricultural industrialization process. After corporatization will come something fundamentally new and different. The corporatization of agriculture, thus, creates an opportunity to develop a new and fundamentally better paradigm for farming, a sustainable agriculture.

Thankfully, a new breed of American farmer has emerged to develop this new and better paradigm for farming. They have emerged in response to growing concerns about the negative ecological and social impacts of the corporate, industrial model of agriculture. These new farmers are concerned about the ecological, social, and economic sustainability of agriculture. However, the success of this new type of farming also has important implications for food safety, food quality, food security, and for the future of family farms.

While there are no “blueprints” for the New American Farm\(^3\), some basic characteristics are emerging. First, these farmers see themselves as stewards of the earth. They are committed to caring for the land and protecting the natural environment. They have a deep sense of respect and commitment to caring for the land. They work with nature rather than try to control or conquer nature. They fit the farm to their land and climate rather than try to bend nature to fit the way they might prefer to farm. Their farming operations tend to be more diversified than are conventional farms – because nature is diverse. Diversity may mean a variety of crop and animal enterprises, crop rotations and cover crops, or managed livestock grazing systems, depending on the type of farm. By managing diversity, these new farmers are able to reduce their dependence on pesticides, fertilizers, and other commercial inputs that squeeze farm profits and threaten the environment. Their farms are more economically viable, as well as more ecologically sound, because they farm in harmony with nature.

Second, these new farmers build relationships. They tend to have more direct contact with their customers than do conventional farmers. Most either market their products direct to customers or market through agents who represent them with their customers. They realize that as consumers each of us value things differently because we have different needs and different tastes and preferences. They produce the things that their customers value most. They have a strong sense of respect for people and appreciation for the value of human relationships. They are not trying to take advantage of their customers to make quick profits; they are trying to create long-term relationships. They market to people who care where their food comes from and how it is produced – locally grown, organic, natural, humanely raised, hormone and antibiotic free,

\(^3\) For 50 real life examples, see “The New American Farmer – Profiles in Agricultural Innovation,” the SARE Program, USDA, Washington DC. ($10 US – call: 802-656-0484 or e-mail: sanpubs@uvm.edu, also available free on line at http://www.sare.org/newfarmer)
etc. – and, they receive premium prices by producing foods their customers value. Their farms are more profitable as well as more ecologically sound and socially responsible.

These new farmers challenge the stereotype of the farmer as a fiercely independent competitor. They freely share information and encouragement. They form partnerships and cooperatives to buy equipment, to process and market their products, to do together the things that they can't do as well alone. They are not trying to drive each other out of business; they are trying to help each other succeed. They refuse to exploit each other for short run gain; they are trying to build long-term relationships. They buy locally and market locally. They bring people together in positive, productive relationships that contribute to their economic, ecological, and social well-being. They value people, for personal as well as economic reasons, and want to build and maintain good human relationships.

Finally, to these new farmers, farming is as much a way of life as a way to make a living. They are “quality of life” farmers. To them, the farm is a good place to live – a healthy environment, a good place to raise a family, and a good way to become a part of a caring community. Many of these farms create economic benefits worth tens of thousands of dollars, in addition to any reported net farm income. Their “quality of life” objectives are at least as important as the economic objectives in carrying out their farming operations. Their farming operations reflect the things they like to do, the things they believe in, and the things they have a passion for, as much as the things that might yield profits. They are connected spiritually through a sense of purpose and meaning for their lives. However, for many, their products are better and their costs are less because by following their passion they end up doing what they do best. Most new farmers are able to earn a decent income, but more important, they have a higher quality of life because they are living a life that they love.

Those who operate the new American farms may or may not fit the stereotypical image of the “farm family” of a husband, wife, and children – most probably do, but many obviously do not. However, in most important aspects, the new American farms are truly “family farms.” On a true family farm, the farm and the family are inseparable – they are parts of the same whole. On the new sustainable farms, the “family” may be an individual or two or more related or unrelated individuals, rather than the traditional family, but in any case, the “family” is inseparable from the land. To farm sustainably, the farmer must have a personal, caring relationship with the land – the farm and farmer must be connected.

On a true “family farm,” the farm organization – production activities, marketing methods, farm enterprises, etc. – must be consistent with the abilities and aspirations of the “family.” As the abilities and aspirations of the family change, the farming system changes accordingly. The farm is a reflection of the family. On a true “family farm,” the family makes all of the important decisions and those decisions must be consistent with the ethical and social values of the family. The relationship of the farm with the community must be consistent with the relationship of the family to the community. The ethical principles by which the farm is operated must be consistent with the ethical principles of the family. The farm is a reflection of the family. A farm business that simply makes money for a family to spend is not a true family farm. On a true “family farm,” family, neighborliness, community, stewardship, and citizenship all matter. A true family farm is much more than just a business; it truly is a way of life.
The new sustainable American farmers are “family farmers,” in the truest sense. They are stewards of the land, they value relationships, and they are pursuing a more desirable quality of life – economically, socially, and spiritually. The new American farm is “the family farm on the cutting edge.”

There are literally thousands of these new family farmers. They are on the cutting edge of agriculture and society, creating new and better ways to farm and to live. They may label themselves organic, biodynamic, ecological, natural, holistic, practical, innovative, or nothing at all; but they are all pursuing the same basic purpose. They are on the frontier of a new and different kind of agriculture, an agriculture capable of meeting the needs of the present while leaving equal or better opportunities for those of the future – a sustainable agriculture. These new family farmers face struggles and hardships and there are failures along the way. Life is rarely easy on any new frontier. But, a growing number are finding ways to succeed.

Sustainable family farming is thinking farming. It requires an ability to translate observation into information, information into knowledge, knowledge into understanding, and understanding into wisdom. Agriculture has been characterized as the first step beyond hunting and gathering. But historically, farming was still considered a low-skill minimum-thinking occupation that almost anyone could do. Industrialization then was said to be the next step beyond agrarianism – beyond agriculture. Higher skilled factory work was considered a step up from farming. Sustainable farming, however, is not the “first step beyond hunting and gathering.” Sustainable farming is a step beyond high-skilled factory work – it is “mind work.” Certainly, these new sustainable farming systems involve some hard work, but their success depends far more on thinking than on working.

Sustainable agriculture is very much in harmony with a post-industrial paradigm of economic and human development. Sustainable agriculture even goes beyond “knowledge-based” development – in that it requires understanding and wisdom. Sustainable farmers provide valuable personal services and societal benefits, which require a sense of ethics and social responsibility as well as intellect. The new family farmers are “thinking workers” – or “working thinkers” – as well as thoughtful, caring people. They combine the physical, mental, and spiritual dimensions of productivity. Some economists have suggested that America must logically abandon agriculture as it moves beyond industrialization. However, America simply needs to embrace this new kind of agriculture that brings with it a new vision for the future.

The sustainable agriculture paradigm of the new family farmers is completely consistent with the visions of Toffler, Drucker, Reich and others of a post-industrial era of human progress. It is holistic and integrative – not specialized or segmented. It is diverse, dynamic, and site specific – not standardized and routine. It is management intensive and interdependent – not management extensive and centralized in control. The sustainable model of farming is clearly biological rather than mechanical in nature – where size must conform to function. Targeted niche markets, less reliance on land and capital, knowledge-intensive management, hands-on management, size scaled to function, smaller is better – these visions of the future are all consistent with visions of a sustainable agriculture.
The survival and success of these new family farmers will depend on the farmers, not on the government or industry. Family farmers cannot preserve their independence by becoming increasingly dependent upon the government. Farmers cannot preserve a farm way of life by becoming “hired hands” for agribusiness corporations. A farm is secure only when the farmer's economic and social relationships are relationships of choice, not relationships of necessity. Once the survival of a farm becomes dependent on a contractor, a banker, a lawyer, or the government, there is no farm security. A nation is secure only when it is able to feed itself in a time of crises. Once the nation becomes dependent on multinational corporations for its food, there is no national security.

In fact, the long run food security of the nation rests in the hands of these new family farmers who have broken away from the global industrial food system. During some future global crisis, we may well be forced to rely on local farmers for our very survival. If so, we will need even more farmers on the land who know how to work with nature to produce more without relying on costly commercial inputs. If so, we will need even more farmers who have developed direct relationships with their neighbors and their customers – who have created value, as well as reduced costs by marketing more directly to local customers. We will even need more farmers who care about the land, care about people, and care about their country.

Can America depend on these new farmers? We can if we make it possible for them to remain true family farmers, sustainable farmers, instead of forcing them to exploit the land, their customers, and each other in vain attempts of economic survival. These new farmers are real people. Unlike multinational corporations, they have hearts, they have souls, and they have families, communities, and citizenship. They are not going to quit farming and move away from their family and friends, just because they could make more money elsewhere. They are rooted in the place where they grew up, where they have family, and would like their children to “take root” in those places as well. They are Americans. They love this country. They are not going to renounce their citizenship and leave this country just because they could make more profit farming in some other country.

What can the rest of us do to help? We can buy more of our food at our local farmers' markets. We can join a Community Supported Agriculture group. We can seek out and encourage local farmers who are willing to sell direct to customers. We can encourage local grocers and restaurateurs to buy from local farmers at every possible opportunity and patronize those who do so. And, we can encourage our friends, neighbors, and professional associates to buy local as well. We can become involved in local and national political issues that affect local farmers' access to land, markets, capital, and appropriate technology. But equally important, we can do everything in our power to support the new American farmers. Ultimately, our food is no more secure than are our relationships with each other and our relationships with the land. And for most of us, our relationship with land is through the new family farmers – farmers on the cutting edge.