LNE94-041/LNE91-029

Publication



# **Farmer to Farmer Directory**

This project was funded in part by a grant from the Northeast Region Sustainable Agriculture Research and Education Program (SARE). I am the project coordinator. The success of this project is due to the involvement of many people. I want to give special thanks to the major participants who helped identify these noteworthy farmers. Many Extension personnel participated. including Richard Brzozowski, Wilfred Erhardt, Gleason Grav, Tim Griffin, Dave Handley, Richard Kersbergen, Donna Lamb, Barbara Murphy, Ed Plissey, and Richard Verville. Russell Libby from the Maine Department of Agriculture (now with MOFGA), Bill Bell from the Maine Association of Conservation Districts. Chris Smith from Soil Conservation Service, and Matt Liebman at the University of Maine also provided me with names of growers. Working together we identified about 250 farmers in Maine with practices or whole farm systems that we felt were illustrative of sustainable agriculture. Of course, it was difficult to get them all to respond to numerous questionnaires and farm visits. The 70 farms described here are operated by very cooperative growers willing to share information. The success of this project, and other similar projects that I hope will follow, depends on the cooperation of many more people in the agricultural community.

Eric Sideman Maine Organic Farmers and Gardeners Association P.O. Box 2176, Augusta, Maine 04338 (207 622 3118)

I want to thank Jean English and Russell Libby for reviewing the manuscript.

### INTRODUCTION

Farmers often raise concerns about issues such as profits, dependence on off-farm inputs, food safety, and degradation of farmland. Many growers are trying to improve their farming operations and have become interested in alternative farming practices. Some farmers have turned to organic production while others have shown interest in incorporating what has been termed sustainable practices into their system.

Those farmers whose farming practices exemplify innovation identify other farmers as their best source of information. Surveys of farmers interested in sustainable practices have identified the lack of useful information as a major impediment to conversion. Clearly, increasing information exchange among farmers will facilitate more awareness of innovative and farm proven practices.

The farmers identified in this directory range from conventional growers with one or two low-input practices of interest to those with diversified and sustainable whole farm systems. Farming practices covered include: soil and water conservation and protection, nitrogen and other nutrient management, manure management, nonchemical weed control, insect and disease control, custom equipment, and alternative marketing. For the most part I have concentrated on vegetable growers, but livestock producers who do an exceptional job of nutrient recycling and soil husbandry through the utilization of vegetable / forage crop rotations are noted.

This is not a how to book. It is a directory to farmers who have some information to offer the farming community. Practices on the farm are only briefly described. The objective of the Directory is to help growers identify other farmers of interest and provide phone numbers and addresses to make contact.



#### Agnew, Jill and Charles



Entry number

RFD 2 Box 4105 Sabbatus, ME 04280 Androscoggin 375 6662

tillable acres 6 pasture acres 6 hay acres 5

Jill raises 4.5 acres of MOFGA certified organic mixed vegetables, 1 acre of certified organic raspberries, and operates an IPM apple orchard.

Sheep, work horses, laying chickens and broilers play important roles on Jill's diversified farm -- providing fertility, cultivating, and transporting apple pickers.

Vegetables are marketed through a CSA. Raspberries and apples are sold pick-your-own, from a farm stand and wholesale. Jill and her family make a visit to the farm an experience that is more than getting food. Families connect with the source of their food and enjoy the farm by riding a horse pulled wagon to the picking fields or visiting the animals.

Soil fertility is based on composted manures from the farm's livestock. Rock phosphate and sul-po-mag supply phosphorus and potassium respectively when soil test results indicate deficiencies. Blood meal is sometimes used to side dress crops.

Horse drawn cultivating equipment and hand hoeing are the basis for weed control. The labor demand is met with apprentices through the MOFGA apprentice program. Jill makes sure the apprentice experience is a learning experience for the apprentices, not only a source of labor for the farm.

The major pest is the Colorado potato beetle, which is controled with Bt.

Green manures used in crop rotation provide weed control. A different field is pulled out of vegetable production each season, and buckwheat, clover, hairy vetch, oats or winter rye is grown depending on the major needs of the particular field. Basile, Bob and Karla Bok

RFD 1 Box 85 New Sharon, ME 04955 Franklin 778 3903 2 Entry number

tillable acres 4 pasture acres 6.5 hay acres 8.5

Bob and Karla grow a wide variety of mixed vegetables, specializing in potatoes, dry beans, and herbs. All the vegetable crops are MOFGA certified organic and are grown in raised beds. In addition to the 4 acres of vegetables and herbs seedlings are raised in a greenhouse.

Some of the produce is sold directly off the farm, but the majority is sold at farmers markets.

Fertility for all the crops is based on manure from the farm's livestock. Blood meal is occasionally used for heavy nitrogen feeders. Bone meal is used to meet early season demand for phosphorus. Sul-po-mag is the chief source of potassium.

Horse drawn cultivation equipment offers good control of weeds. Hand hoeing and pulling does the rest.

Botanical insecticides such as sabadilla are used for insect control. A major pest is the Colorado potato beetle which is controled with the appropriate strain of Bt.

Bob and Karla use crop rotation as part of their weed, insect, and disease control strategy. Vegetables are rotated with oat cover crops from which an early cutting of hay may be taken. For example, a field of dry beans will be followed by mixed vegetables which will be followed by oats. Then back to dry beans.



3 Barker Lane Stratham, NH 03885 Rockingham 603 778 0970

tillable acres 20 pasture acres 0 hay acres 25

David raises 5 acres of mixed vegetables, one half acre of cut flowers, up to 2 acres of strawberries, 1 acre of pumpkins and 6 acres of sweet corn. All of the vegetables and fruit, except the sweet corn, are certified organic by the New Hampshire Department of Agriculture.

David went through a period of transition from conventional growing methods to organic from 1989 to 1992.

The produce is sold from a well designed farm stand. Flowers and strawberries are also sold pick-your-own. The farm is very picturesque and is set up to heighten the farm vist experience.

The farm fertility is based on crop rotations using legume green manures and composted horse manure from a neighbor farm. Some commercial organic fertilizer is purchased and used on heavy feeding vegetables and strawberries. Conventional fertilizer is used on the hay ground. Sul-po-mag is used for potassium when called for by soil test results.

Weed control is primarily achieved with mechanical cultivation. A belly mounted Buddingh Basket Weeder on a Farmall Cub is used in the small crops. A belly mounted finger weeder is used on the strawberries during their first year growth until they start running.

When the corn is 1 inch tall and the growing point is still below ground, Dave passes over the field with a flame weeder. Crop rotation is the key to the success on David's farm. He counts on legumes such as hairy vetch and clover for soil fertility. Crop rotation also plays an important role for insect, disease, and weed control. All the ground is covered in the fall with either a cover crop or an extended season green manure.

Vegetable and strawberry land is rotated with a hairy vetch/winter rye mix. David harvests his own seed with a neighbor's combine to save for next year's cover crops.

Some land is pulled out of cash crop production to allow winter rye to mature to be harvested for straw. Clover is overseeded into the fall established rye by broadcasting seed onto snow-covered rye fields in March. The clover is left to grow the season after the straw is harvested. Then the land goes back into a cash crop.



Rubber fingers of this belly mounted finger weeder dislodge the young sprouting weeds and can work very close to Dave Batchelder's strawberry plants (see entry 3). Beaudoin, Roland

4 Entry number

Beaudoin Rd Box 2910 Clinton, ME 04927 Kennebec 426 8131

tillable acres 9 pasture acres 0 hay acres 0

Roland grows 5 acres of strawberries and about 3 acres of sweet corn. He also raises 1 1/2 acres of raspberries, 1/4 acre of blueberries, and a small amount of tomatoes and other vegetables.

All the berries are sold PYO. The corn is sold wholesale.

The basis of fertility on the farm is poultry manure. Roland leases space to a large scale chick producer and the manure is there for Roland's use. He uses aged manure as a side dressing at renovation. Poultry manure is also used in the corn part of the rotation and the corn residue is chopped with a flail mower and plowed in.

Herbicides are used minimumally. The basis of weed control is cultivation with an International single row cultivator on a Ford 8N.

Roland has a rotation with 3-4 years in strawberries and then 3 years in corn.

Beckwith, Donald and Bruce Bincks RFD 2 Box 347 Yarmouth, ME 04096 Cumberland 846 4294 pas 5 Entry number

tillable acres 15 pasture acres 1 hay acres 0

Don and Bruce raise 3 acres of MOFGA certified organic mixed vegetables and cut flowers, most in permanent raised beds.

Nearly all of the crops are sold at farmers markets.

Fertility is based on homemade compost from a neighbor's horse manure and their own vegetable material. Some blood meal is used for heavy nitrogen feeders in intensive plantings. Bone meal provides phosphorus early in the season. Greensand provides potassium, while rock phosphate is applied to meet long term phosphorus needs. Cover crops are used extensively to conserve nutrients.

Weeding is done by hand, but crop rotation reduces weed pressure.

The major pest is the Colorado potato beetle, for which Bt is used.

Don and Bruce have a complex rotation of vegetables from bed to bed to break disease and insect cycles.



Dave Batchelder overseeds clover into winter rye in the late winter. In the late spring the rye is harvested for straw to mulch the strawberries(see entry 3). Bellmore, Jeff



Entry number

RR 1 Box 689 Warren, ME 04864 Knox 273 3818

tillable acres 100 pasture acres 0 hay acres 0

Jeff raises 15 acres of strawberries and 80 acres of mixed vegetables.

The strawberries are sold mostly pick your own. Some of the berries and the vegetables are sold from their farm stand and the rest are sold wholesale.

Jeff uses a mix of nutrient sources to meet the farm's fertility needs. Good soil management is achieved with cover crops, full season green manures, and crop rotation. Compost is made from hen dressing, mussel shells, old straw and vegetable waste. Some chicken manure is spread directly. Conventional fertilizer is used when needed.

As part of a weed control strategy, crops and/or green manures that compete well with the weeds in particular fields are grown.

Jeff uses a homemade two row cultivator mounted on a three point hitch. Hand hoeing is also an important part of the weed management system. Herbicide use is greatly reduced by integration of these management tools.

Jeff scouts his fields for insects and diseases and is in the IPM program.

There is no set, long term crop rotation plan. Vegetables and strawberries are rotated with green manures. Vegetables are also rotated from field to field as needed to avoid disease and insects. Birdsall, Paul and Molly

RFD 1 Box 63 Blue Hill, ME 04614 Hancock 374 5038



tillable acres 30 pasture acres 13 hay acres 20

Paul and Molly raise 7 acres of certified organic vegetables and 2 acres of low bush blueberries.

All of the field work on the Birdsall farm is done with work horses. The Birdsalls also raise sheep.

Most of the produce is sold at a farmer's market. Additional sales are made directly from the farm, and some produce is moved to wholesale markets.

Soil fertility management is based on composted manures from their horses and sheep, and from legume green manures. Rock phosphate, sul-po-mag and wood ash are used to meet requirements identified by soil testing.

The Birdsalls use green manure crops in their crop rotation to handle specific weed problems. Horse drawn cultivation equipment is the basis of weed managment in vegetable fields. Hand hoeing and hand pulling also play an importment role.

Row covers are used to protect crops from root maggots. Bt is used against the Colorado potato beetle.

Vegetable land is regularly pulled out of production for a full season for legume green manures. The Birdsalls commonly use the hairy vetch/winter rye mix or alfalfa. All crop land is covered with winter cover crops after harvest. Early harvested fields are put into forage brassicas (green globe turnips or tyfon) for late fall pasture for the sheep.

Bok, Tony



Entry number

P.O. Box 399 Camden, ME 04843 Knox 236 2029

tillable acres 3 25 pasture acres 25 hay acres

Tony grows 3 acres of organic dry beans.

Tony also produces about 50 lambs each season.

The dry beans are sold directly to regular customers, usually in large orders for their winter's storage. The lambs are shipped out wholesale.

A long ley of alfalfa and clover hay in the rotation gives Tony's fields the rest and fertility needed for dry beans. After seven years, the ley is plowed and compost is added to a field. Then rye is seeded for the winter cover and the field goes back into bean production the following season.

The compost is made from municipal leaves that are collected by the town and delivered to Tony's farm for composting with the farm's sheep manure. On-farm composting is done in windrows made and turned with a manure spreader.

Borkowski, Tim and Gail

57 Gowen Lane York, ME 03909 York 363 1209

Entry number

tillable acres 10 pasture acres 6 hay acres 0

Tim and Gail raise 1 acre of organic vegetables plus tomatoes in a hoop house.

The produce is sold directly from their farm stand and at a farmers market.

Soil fertility is maintained with composted manure, seaweed, and legume green manures. Compost is made through sheet composting in the field. Tim uses limited amounts of blood meal, greensand, and bone meal when specific situations call for some extra fertility.

The vegetables are rotated around the acre in a complex arrangement designed to avoid insect and disease problems.



Dave Colson uses sorghum-sudan grass as a cover crop on new land to compete with weeds and add organic matter(see entry 13).

Bowden, Scott

10

Carter, David

Entry number

RR 1 BOx 928 Freedom, ME 04941 Waldo 382 6138

tillable acres 4 pasture acres 3 hay acres 0

Scott raises 3 acres of mixed vegetables. He also grows hoophouse tomatoes, cut flowers and seedlings.

The produce is sold at farmers market or at Scott's farm stand.

Fertility is maintained with legume green manures and compost.

Scott is very experienced with hand operated weed control equipment. He uses a wide variety of hand and wheel hoes.

Insects are controled with a variety of organically acceptable pesticides including botanicals and Bt. Scott also uses beneficial nematodes for soil borne insects.

Scott uses crop rotation to manage soil fertility and control weeds. He follows a set pattern on most fields: heavy feeders follow a legume green manure that was grown the previous season; light feeders (such as root crops) follow the heavy feeders; after light feeders, a competitive cover crop, for example buckwheat, is grown to outcompete on weeds; then the following season the field goes back to a legume green manure. Rt 26 Oxford, ME 04270 Oxford 539 4848



tillable acres 10 pasture acres 0 hay acres 0

David grows about 4 acres of mixed vegetables and about 5 or 6 acres of sweet corn.

Nearly all of the produce is sold through an on-site farm store. Other "country" items are sold at the store. The farm is a cross country ski center in the winter and the store becomes a ski shop.

Soil fertility is maintained with hen manure.

Weeds are controlled with cultivating equipment, which is belly mounted on a Farmall Cub tractor. Dave has greatly reduced his use of herbicides by cultivating.

No sprays are used on the sweet corn. Floating row covers are used extensively to protect many crops from pests.



Winter rye is used as a fall cover on the Colson farm(see entry 13).

#### Casper, Kit and Linda



Entry number

Box 392 Rangeley, ME 04970 Franklin 864 5539

tillable acres 2 pasture acres hay acres

Kit and Linda grow a wide variety of organic vegetables on two acres.

Most of the produce is marketed through their very attractive farm store. They are in a vacation area and they specialize in serving summer residents of their community. Most of their customers depend on them for summer vegetables. Regular customers get special service, e. g., newsletter, privilege to call and reserve products, and more. Customer care, quality products, very attractive layout of produce and a special shopping experience including an educational farm environment create their market base.

The Caspers use homemade compost and legume green manures for most of the fertility on their farm. The compost is made from manure or their lambs, hogs, broilers and layers.

Kit and Linda are committed to keeping a crop of some sort on their tillable land as much as possible. They use short season summer cover crops extensively. For example, they plant oats in each block as each crop is harvested. Winter wheat and rye are used as grains in vegetable rotations. Clover is sometimes used after a crop if the following crop is going to be a late season planting. Oats are often used as living mulch between rows of late crops and are left as a fall cover after the crop is harvested. Colson, David and Chris

496 Davis Rd Duhham, ME 04222 Androscoggin 353 5263 13 Entry number

till	lable acres	15
past	ture acres	0
hay	acres	30

Dave and Chris raise about 5 acres of certified organic vegetables. They also have herbs in beds, tomatoes and speciality greens in hoop houses, and 1/2 acre of raspberries. They raise wheat in rotation with the vegetables.

All crops are sold wholesale to restaurants and specialty stores.

Dave uses legume green manures to meet most of his nitrogen needs. He also makes compost from vegetable materials on his farm and manure from his own farm and neighboring farms. He uses bone meal to meet phosphorus needs. He feels the great difference in available phosphorus justifies the increased cost compared to rock phosphate.

Dave does excellent work with mechanical cultivation. Weeds are managed in small crops, such as young spinach or carrots, with a Buddingh Basket Weeder belly mounted on a high clearance Kubota tractor. Larger plants are cultivated with a variety of knives and shovels. Cultivation is simplified by crop rotation with competitive green manures. Dave brought his old fields into production with a series of very competitive green manures, including sorghum sudan grass followed by winter rye.

The basis of insect control on the Colson farm is the crop rotation. Row covers are also used to exclude insects from high value crops. Dave turns to a pyrethrum mix as a last resort for some very tough to handle insects.

The Colson farm is broken into distinct fields, which are planted to vegetable crops, grains, or green manures in rotation. Legumes are used extensively to provide nitrogen. Dave has used red clover as a summer cover, hairy vetch/rye mix as a late summer-late spring crop, and sweet clover. Generally vegetable land is pulled out of production for two years either for green manures or grains with undersown clover. Cross, Keith



Entry number

RR 1 Morril, ME 04952 Waldo 342 5548

tillable acres 32 pasture acres hay acres

Keith raises 22 acres of sweet corn, 1 acre of potatoes, 2 acres of squash, 1 acre of cabbage, and 6 acres of other vegetables.

He also raises 98 beef animals, 27 hogs, and 18,000 hens.

The produce is sold to stores, restaurants, and coops in nearby cities.

The fertility of the soil is based on livestock manure.

Keth manages weeds with a cultivator mounted on an Allis Chalmers C.

He is in the IPM program.



Dave Colson uses the Buddingh Basket Weeder for fine weed control in a young crop of spinach (see entry 13). Dennison, Brian

RR 1 Box 1212 Bowdoinham, ME 04008 Sagadahoc 666 8447 (15) Entry number

tillable acres 125 pasture acres 0 hay acres 0

Brian raises 38 acres of radish, 25 acres of lettuce, 23 acres of cabbage, 10 acres of beets, 2.5 acres of parsley, and 2 acres of swiss chard. All of the crops are raised in permanent beds separated by tractor wheel tracks. The same beds are kept from year to year, even for green manure crops.

This a large scale wholesale operation. There is a large and efficient packing house where all the vegetables are washed and packed and prepared for shipping. Almost all of the produce goes to large supermarket chains in New England.

Brian uses compost and green manures to meet the fertility needs of his crops. Conventional fertilizers are banded for better placement and efficient plant uptake.

Herbicide use on the farm is greatly reduced. More than half of the crops are raised with no herbicide. Good crop rotation and use of competitive green manures in the off years reduce the weed pressure. Excellent use of state-of-the-art cultivating equipment is key to the success of the operation. The early cultivation is done with a Buddingh rolling basket weeder. The second cultivation combines the basket cultivater and Bezzerides springhoes or torsion weeders. In some crops the third cultivation is hilling with Bezzerides Spyders.

Most crops are not planted in the same bed for three years. Only radishes are repeated for a few years. Frequently fields are pulled out of cash crop production and planted to a green manure. The needs of the particular field drive Brian's choice of green manures. For nitrogen fixation Brian chooses red clover, vetch or vetch/rye mix. For soil conditioning or adding organic matter he uses Japanese millet, sorghum sudan grass, or oats. Brian is very committed to fall cover cropping with rye or vetch/rye mixes. Even the latest fields are planted to a cover crop after harvest. Devoe, Arthur and Tom



Entry number

RFD 1 Box 48 Limestone, ME 04750 Aroostook 325 4550

tillable acres 180 pasture acres 20 hay acres 40

The Devoes raise 80 acres of potatoes and 60 acres of small grains, including triticale.

They keep 20 head of beef.

The key to fertility on the Devoe farm is crop rotation with legumes. They also use the manure from their beef animals, spreading it before the grain crops in their rotation.

Very little herbicide is used. Primary weed control is with a belly mounted cultivator on a John Deere. This year they used only 25% of the recommended herbicide.

The Devoes are a trial site for the new variety of genetically engineered potatoes, developed by Hybertech, that contain a gene for the Bt toxin.

They farm following a four year rotation: 2 years of potatoes, then a year of grain, then a year of a legume pasture mix (red clover, alsike clover, and timothy). Dorman, John

RFD 1 Box 20 Exeter, ME 04435 Penobscot 278 4800

Entry number

tillable acres 450 pasture acres 0 hay acres 0

John raises approximatly 450 acres of potatoes.

All the potatoes are wholesale marketed.

Conventional fertilizer needs are greatly reduced by rotating crops with a neighboring dairy farm (see Fogler). Crop rotation with legumes provides nitrogen. Cow manure is applied when the dairy farmer grows corn. The corn is overseeded with annual ryegrass at the last cultivation time, which helps conserve nutrients, prevents leaching, and establishes a fall cover crop.

The rotation with the forage crops for the dairy breaks the potato insect cycles.

Crop land is shared with the Fogler dairy farm ( see Entry #24). The rotation includes Dorman's potatoes, and then barley, alfalfa and corn for the dairy feed.



Brian Dennison uses a belly mounted Buddingh Basket Weeder on an Allis Chalmers "G". The wheel tracks between the beds are maintained from year to year, which means the soil in the beds is never compacted (see entry 15). Douglass, Rudd and Elizabeth RFD 2 Box 374 Gardiner, ME 04345 Kennebec 737 8522



Entry number

tillable acres 23 pasture acres 6 hay acres 0

Rudd grows 1 acre of potatoes mostly sold as new potatoes, 1 acre of sweet corn, 1 acre of tomatoes and peppers, 1 acre of squash and melons, and 7 acres of other vegetables. In addition, Rudd raises 22 acres of low bush, wild blueberries. All of the vegetables and most of the blueberries are certified organic.

Elizabeth sells eggs from 500 layers.

Most of the produce is sold at farmers' markets. They also market to speciality stores and some direct from the farm.

Soil fertility is based on compost made from the chicken manure. Nutrients are supplemented with cottonseed meal, sul-po-mag, rock phosphate and alfalfa pellets.

Bt is used for Colorado potato beetle. Row covers are use to protect crops from cucumber beetle. Botanicals are used as a last resort. Eggert, Frank

RR 2 Box 365 Verona, ME 04416 Hancock 469 7519 (19) Entry number

tillable acres 1/2 pasture acres 2 hay acres 3

Frank and Barbara raise a mix of organic vegetables and small fruit.

They raise a small number of sheep for quality fleece.

The extra produce is sold through a farm stand.

Frank has designed a crop rotation with legumes to meet most of the nitrogen needs. Compost is made from the farm livestock manure and meets the rest of the needs.

Different gardens are pulled out of production for a season or more to plant legumes. Cover crops are used to prevent erosion. Legumes are frequently overseeded into sweet corn for winter cover and for the next season's green manure.



The Devoes raise beef in addition to potatoes, which gives them great opportunities for crop rotations and a means to recycle nutrients on the farm (see entry 16).

#### Elvin, Eric



Entry number

40

0

0

Pea Ridge Rd Entry Readfield Depot, ME 04355 Kennebec tillable acres 685 4285 pasture acres hay acres

Eric and his family raise 25 acres of sweet corn, 7 acres of pumkins, 3 acres of strawberries, and 3 acres of other mixed vegetables. They also operate a greenhouse where they raise seedling and bedding plants.

The produce is sold off the farm and from a seasonal farm stand set up on a major road.

The major source of crop nutrients is chicken manure.

Eric is noted for his proficiencey with cultivating equipment. He uses Lilliston rolling cultivators for corn and other large crops. The spring tooth harrow is used on many fields. Eric, at an Extension Field Day at his farm, pointed to the wheel hoe and said it is his most important weed control tool.

Eric scouts for insects and uses IPM in his sweet corn.



Ernst, Kevin and Lisa Conway HCR 62 Box 307 Mt. Desert, ME 04660 Hancock 244 5204 (21) Entry number

tillable acres 10 pasture acres 5 hay acres 0

Kevin and Lisa grow 3 acres of MOFGA certified organic vegetables, with an emphasis on speciality lettuce.

Nearly all of the produce is sold from their farm stand. A small amount is sold to local restaurants and specialty stores.

The heart of the fertility program is compost made from leaves brought to the farm from the community. Manure from local livestock and farm wastes are added to the pile. The pile is turned using a PTO driven manure spreader.

Additional nitrogen is added to the system through the extensive use of legume green manures. Some crops are side dressed with blood meal.

Crop rotation and the use of green manures is key to managing weeds. Kevin also relies on various kinds of cultivating equipment such as a Buddingh basket weeder.

Crop rotation is at the heart of insect control. Bt is used for Colorado potato beetles. Kevin turns to botanicals as a last resort.

The vegetables are raised on well separated fields, which are put into green manures in rotation after two years of crops. Depending on the needs of the field, buckwheat or a legume is grown.

Kevin Ernst uses dutch white clover as a living mulch between rows of squash (see entry 21). Estes, Carl

RR 3 Bx 89 Gorham, ME 04038 Cumberland 929 4801

tillable acres 15 pasture acres 0 hay acres 25

22

Entry number

Carl used to raise 6 acres of strawberries, but now he is retired. He still raises a half acre of strawberries, 2-3 acres of melons, a quarter acre of pumpkins and about 7 acres of high bush blueberries.

The strawberries are sold PYO mostly to friends and neighbors. The melons are sold to other farm stands.

Carl uses green manures in rotation with crops to build soil structure and control weeds. Vegetable land is taken out of production and put into rye, oats or Japanese millet for two years. Fitzpatric, Don

Jordon Rd. Houlton, ME 04730 Aroostook 532 6015 23 Entry number

tillable acres 500 pasture acres 0 hay acres 0

Don grows 340 acres of seed potatoes.

Almost all of the seed is sold to wholesale markets.

Legume crops grown in rotation with the potatoes reduce the amount of conventional fertilizer needed.

Don uses a home-built flamer to help control the Colorado potato beetle.

He uses a rotation with grains and legumes to condition the soil. He rotates out of potatoes after one year production and plants barley with undersown red clover. The clover is kept a year after the grain harvest. Because of its great soil building qualities, Don chooses to plow the straw in rather than harvest it.



Kit and Lind Casper base most of their crop nutrition on compost made at the farm(see entry 12).

Fogler, Bob



Entry number

RFD 1 Box 1900 Exeter, ME 04435 Penobscot 379 2428

tillable acres 600 pasture acres hay acres 250

The Foglers operate a dairy farm. They are noted in this directory because of their arrangement with a near-by potato grower. The Foglers raise about 300 acres of field corn, 300 acres of barley, and 125 acres of alfalfa in a rotation with John Dorman's potatoes.

They are milking about 225 cows and have about 200 heifers.

Fertility is based on a mix of manure, legumes in rotation, and conventional fertilizer.

The field corn is cultivited with a row crop field cultivator. This practice breaks up crusty soil and reduces the need for herbicides.

The rotation provides a good use for the excess manure produced on the dairy farm. After a year of potatoes, barley is planted with undersown alfalfa. Corn comes in next and receives the manure applications. Annual ryegrass is overseeded in the corn after the last cultivation. The ryegrass prevents leaching, helps build the soil, and remains as a fall cover crop after the corn is harvested. Friedman, Ed

RFD 1 Box 1186 Bowdoinham, ME 04008 Sagadahoc 666 3725 25

Entry number

tillable acres 2 pasture acres 0 hay acres 0

Ed concentrates on growing leeks, basil, giant pumpkins, and hot peppers. The produce is certified organic.

All the crops are sold to restaurants and specialty food stores. The pumpkins are marketed to downtown stores at Halloween time as store front displays.

The basis of fertility is crop rotation with legume green manures. Animal manures, leaves, and a fish hydrolysate provide additional nutrients.

Whole fields are pulled out of production for a season and green manures are used for improving soil tilth, controlling weeds, and adding nitrogen. Ed has experience growing crimson clover, red clover, rye, buckwheat, and sweet clover.



The Foglers overseed annual rye into their corn after the last cultivation, which leaves an established fall cover crop when the corn is harvested to catch left over nutrients(see entry 24).

RFD 1 Box 386 Carmel, ME 04419 Penobscot 848 3888 26 Entry number

tillable acres 25 pasture acres 0 hay acres 0

Freeman raises 20 to 25 acres of many kinds of vegetables. In addition to field-grown crops, he does an excellent job of growing early tomatoes and cucumbers in hoop houses.

Most of the crops are sold directly from the farm out of a farm store.

Weed control is handled almost entirely with crop rotation and mechanical cultivation. Periodically fields are pulled out of production and a competitive green manure is planted for a season.

A Danish time cultivator on a three point hitch provides most of their weed control. A spring tooth cultivator is also used, especially for getting out quack grass. A harrow with a beam dragged behind it is used to "float" the field. Herbicides are used only on carrots and potatoes.

All the land is covered with cereal rye for the winter. Periodically Japanese millet or buckwheat is used as a green manure on land pulled of production. All the residue from crops and green manures is plowed back into the soil. When a piece of ground seems in need, Freeman may pull it out of vegetable production and grow hay on it for a while. He says, " this is the best way to build the soil." Galland, Nancy and Richard Standard RFD 1 Box 656 Belfast, ME 04915 Waldo 338 3568 pas



tillable acres 3 pasture acres 0 hay acres 0

They grow a wide variety of organic vegetables and hoop house tomatoes. Nancy and Richard have cut way back on their production as they get ready to retire.

Most of the produce is now marketed directly from the farm on a farm stand. They also have a great deal of past experience marketing to specialty stores and going to farmer markets.

The basis of the fertility is home made compost made from cow manure, horse manure, kitchen wastes, garden wastes, etc. Fertility is supplemented with sul-po-mag, epsom salts, seaweed, fish liquid fertilizer and worm castings.

Quack grass is controled by chisel plowing and raking off.

Green manures are used as in-season cover crops as part of the rotation. Oats are often overseeded into vegetable fields in order to establish a fall cover crop early.

Freeman Frost handles weeds almost entirely with mechanical cultivation (see entry 26).



Gerritsen, Jim and Megan



RFD 1 Box 164 Bridgewater, ME 04735 Aroostook 429 9765

tillable acres 10 pasture acres 10 hay acres 8

Jim and Megan grow 7 acres of certified organic table and seed potatoes and 3 acres of certified organic mixed vegetables. They emphasize specialty potatoes and hard to find varieties.

They sell about 15 lambs a year. Jim and Megan also keep work horses.

Jim and Megan have established a mail order catalog for much of their produce. They also do some marketing on a wholesale level and have experience with a CSA.

Fertility is based on a variety of sources of nutrients. Legume green manures are used extensively in rotation with cash crops. Fish wastes (fish scale, fish meal, crab meal, etc.) are used as concentrated nitrogen sources. Manure tea and compost are used frequently.

Weeds are controled through good crop rotation and mechanical cultivation.

Colorado potato beetle is the major insect pest. Good control is obtained with a combination of methods. A flamer is used early in the season to get the first adults. Also, a trench trap is built to capture adults coming out of hibernation crawling to reach the new potato fields. Bt is used later to get larvae.

Compost teas are used as a sprays to control late blight on potato.

The rotation Jim and Megan use begins with potatoes or vegetables, then a grain is undersown with clover, then the clover or clover timothy mix is allowed to grow a season or more, then potatoes or vegetables are planted again.

They have experience with growing a variety of clovers including medium red, alsike, and yellow sweet clover.

Gill, Chas

RR 1 Box 1223 Bowdoinham, ME 04008 Sagadahoc 666 3116 (29)

Entry number

tillable acres 12 pasture acres 0 hay acres 0

Chas and Linda grow 8 acres of field grown flowers and herbs plus early flowers in hoop houses.

Almost all of the produce is marketed through farmers markets.

Green manures and compost are the heart of the fertility program. Supplemental nutrient needs are met with bloodmeal, bonemeal, sul-po-mag, and fish emulsion.

Most of the crops are raised on raised beds made with a tractor mounted bed former, which lays black plastic with a drip line under it. Crop rotation including competitive green manures play an important role in weed control.

Chas has experience with controlling flower insect pests with botanicals such as sabadilla.

After cropping a field for a few years, winter rye is planted in the fall. Then the field is kept out of cash crop production for two years while green manures are grown. Chas has experience with buckwheat, hairy vetch, clovers, millet, and oats.



The Gerritsens use a trench to trap the first Colorado potato beetles walking in search of the new potato field (see entry 28). Goranson, Jan and Rob Johanson RR 1 Box 890 Dresden, ME 04342 Lincoln 737 8834



Entry number

tillable acres 30 pasture acres 0 hay acres 0

Jan and Rob grow 12 acres of tablestock potatoes, 7 acres of sweet corn, 1 acre of asparagus, 2 acres of squash and pumpkins, and 9 acres of a good mix of other vegetables, flowers, and herbs. They also raise about a half an acre of strawberries, and a 100 foot greenhouse full of extra early tomatoes.

Each year they raise 12 pigs and about 250 broilers.

They sell much of their produce from their own farm stand. They also sell to restaurants and through farmers markets. They market a great deal of their potatoes in storage quantities to long standing, regular customers.

They reduce their need for commercial fertilizer by using legumes in their crop rotation.

Mechanical cultivation is the basis of weed control. Rob uses an Allis Chalmers G with belly mounted cultivators. He also uses Lilliston rolling cultivators in the corn and potatoes. The first hilling of potatoes is done with these.

Their crop rotation plays an important role in weed control.

They are in the IPM program for sweet corn. Spraying is a minimum in all crops. Bt is used when possible instead of chemical pesticides.

They use a variety of crop rotations in different fields. The potato rotation that Rob is trying to get into is potatoes for a year, then the vetch/rye mix, then corn, then back to potatoes. As much land is cover cropped as possible. Periodically the rye is left to grow, then tilled, and rye/vetch is planted and left until the next season, then the field goes back into production. Goughan, Mark and Gloria

Fort Fairfield Rd Caribou, ME 04736 Aroostook 498 6565



Entry number

tillable acres 30 pasture acres 0 hay acres 0

Mark and Gloria grow 15-20 acres of strawberries and 5-6 acres of mixed vegetables. They also produce 5 acres of pumpkins, and early tomatoes in a greenhouse.

They sell most of the produce off their farm stand. The berries are PYO. Mark has a great flare for marketing. The farm stand has a lunch counter from which they move much of their own products. Their maple syrup house is set up like a class room for educational tours from school groups. The farm stand is surrounded by beautiful gardens and paths. A barn full of a wide variety of animals is kept just to make a visit to the farm a memorable experience for the whole family.

Mark handles most of his weed problems with mechanical cultivation equipment. He uses a field cultivator set for weeds between rows in strawberries. He has built a mechanical cultivator that is tractor mounted and is operated by a rider who maneauvers handles that guide two shanks around the plants in the row. Greager, Jamie and Martie Crone RT 1 Box 725 Palermo, ME 04354 Waldo 993 2755 32

Entry number

tillable acres 1 pasture acres hay acres

Jamie and Martie grow a quarter acre of certified organic garlic and about a half acre of certified organic vegetables.

A major chunk of their produce is sold at the Common Ground Fair. The rest is sold to specialty stores.

Nutrient needs are met with compost. Some of the compost is bought from a commercial source.

Jamie and Martie grow the garlic in rotation with a green manure, usually buckwheat.

Gross, Frank

Box 141 Lisbon, ME 04250 Androscoggin 353 6891 (33) Entry number

tillable acres 3 pasture acres 0 hay acres 0

Frank raises 2 acres of certified organic mixed vegetables. He specializes in a wide variety of salad greens and salad mixes including edible flowers. Much of his production is continued late into the season by means of specially designed greenhouses. One house is kept in production year round. It has double layer plastic walls built around custom made steel separating bows. The house is heated with a wood stove.

Frank's field production is in raised beds.

Frank is a restaurant trained specialty salad preparer. He sells most of his produce as prepared salads and steamer-ready vegetables to a very high class restaurant that is committed to local and organic food whenever possible.

Most of the fertility needs are met with composted cow manure. He supplements with blood meal, rock phosphate, and fish hydrolysate. Frank also uses legume green manures.

> Rob Johanson discusses the day's results with an IPM scout on the Goranson/Johanson farm(see entry 30





Entry number

RFD 3 Biddeford, ME 04005 York 499 2678

tillable acres 80 pasture acres 40 hay acres 250

The Harris family raises 4 acres of mixed vegetables, 20 acres of sweet corn, and hoop house tomatoes. They also operate a dairy farm where they are milking about 45 cows. They use 55 acres for silage corn and alfalfa and raise 250 acres of hay. The hay is a grass/legume mix. Much of the hay is sold. Bill uses a no-till planter to seed legume into the hay.

The crops are raised on a wide variety of sources of fertility. The vegetables receive mostly conventional fertilizer. The corn is in a rotation with legume. The Harrises make good use of recycled and waste stream sources of nutrients. They have experience with using municipal sludge, N-Viro soil, and commercial ash.

The corn is in rotation with alfalfa. After 5 years of corn, Bill grows alfalfa for 5 years. Although most of the silage comes off too late to cover crop, Bill succeeds in getting the ground covered by overseeding the corn, including sweet corn, with rye when about foot tall.

Hayes, Barry and Susan

76 Picott Rd Kittery, ME ? York 439 6522 35 Entry number

tillable acres 1 pasture acres 0 hay acres 4

Barry and Susan grow about an acre of MOFGA certified organic vegetables and a small amount of raspberries.

Most of the crops are sold to a large produce stand and a healthfood store. The potatoes are raised for seed and sold to a local seed company as certified organic potato seed.

The fertility is based on composted manure. They also use rock phosphate, blood meal, and some seaweed.

Barry uses Dutch white clover as a living mulch between rows of raspberries.

Although no land is pulled out of production for a season because of the small land base, they cover fields and parts of fields as crops come off. The rye cover crops are frequently fed the their sheep.



Johnston, Rob (Johnny's Selected Seeds) Foss Hill Rd Albion, ME 04910 Kennebec 437 9294 36 Entry number

tillable acres 30 pasture acres 0 hay acres 0

They grow 30 acres of mixed vegetables for research and seed production.

The fertility is based on composted cow, chicken, and horse manure brought from neighboring livestock farms.

Weed control is chiefly by means of mechanical cultivation equipment. They use a home made field cultivator, Liley spring times, and belly mounted traditional cultivators.

Three different tractors are used for cultivating: an Allis Chalmers G, a Farmall 200, and a Farmall AV. The Farmall AV is a high clearance Farmall A that is able to straddle plastic tunnels or other row covers. The Allis Chalmers is run with the cultivators made for that tractor. The Farmalls are used with belly mounted spring times set to do 2 rows or one side of plastic mulch.

In addition to mechanical weed control, Rob has vast experience with wheel hoes and a wide variety of hand hoes.

Rob has very few pest problems because of his commitment to crop rotation. They use floating row covers to exclude pests such as cabbage maggots. Botanicals are used only as a last resort when cucumber beetles or flea beetles get bad. Colorado potato beetle is controled with Bt.

Crop rotation is designed to manage pests, diseases, soil fertility, and to rest ground. Fields are regularly taken out of production and green manures planted. Examples of crop rotations include growing grains on vegetable land. Mammoth red clover is undersown in the grain and is left after the grain is harvested to grow another year. They report very good weed control by taking a field out of production and planting the oat, pea, vetch mix that is being studied at the University of Maine. This mix gives much better weed control than a straight clover cover. Jones, Bambi and David (Tracy) Moskovitz Hollywood Blvd. Alna, ME 04535 Lincoln 586 5837 (37) Entry number

tillable acres 15 pasture acres 1 hay acres 10

Bambi raises 4 acres of mixed, MOFGA certified organic vegetables.

They raise 2 beef cows, about 150 broilers, and 14 pigs.

The vegetables are sold at farmers markets, restaurants. In addition, Bambi has a CSA.

Fertility is based on compost and green manures.

They use wheel hoes and hand hoes for managing weeds.

Bambi has experience with botanicals, floating row covers, Bt, and predator release.

There is a 7 year plan where vegetables are rotated and periodically land is pulled out of production to grow green manures. The rye/vetch mix is used for winter cover and early spring growth. Summer covers include buckwheat, and clovers. Bambi also interseeds soybeans between her rows of sweet corn. She frequently uses dwarf white clover as a living mulch between cole crops and squash. 38

Entry number

RR 3 Box 280 Newport, ME 04953 Penobscot 938 2497

tillable acres 8 pasture acres 3 hay acres 0

Priscilla concentrates on the 1 to 2 acres of certified organic strawberries, but also grows an acre of peas, new potatoes, and dry beans.

She sells the produce to local stores. Some of it goes directly from the farm and some to vendors at the Common Ground Fair.

The crop rotation with green manures and the widely separated fields are the key to managing strawberry pests.

Crop nutrition at Johnny's Selected

Kafka, Jason and Barbara

RFD 1 Box 263 Guilford, ME 0443 Piscataquis 277 3114



tillable acres 38 pasture acres 20 hay acres 40

Jason and Barbara raise 3 acres of certified organic mixed vegetables and a half acre of dent corn for animal feed.

They raise about 5 whiteface beef cows.

Much of their marketing is at the Common Ground Country Fair. They also market to local outlets.

Jason uses compost, a fish hydrolysate, sul-po-mag, and commercially produced wood ash.

Jason uses Bt for potato beetles. He also has experience with botanicals such as rotenone.

Jason is still developing a rotation plan as he opens new ground to bring into production. He uses winter rye, then buckwheat, and then soybeans or oats initially on new fields before crops. The rotation Jason is aiming for is potatoes followed by beans, followed by mixed vegetables and then a green manure.

Seeds is based on compost. The bound of the piles are built and turned using a from a spreader, and kept covered to more prevent leaching (see entry 36).



King, Dennis



Entry number

HCR 80 Penobscot, ME 04476 Hancock 326 9701

30 tillable acres 10 pasture acres' 30 hay acres

Dennis grows 3 acres of certified organic vegetables.

He markets about 50 lambs a year.

Most of the sales are to local stores and restaurants.

Fertility is based on compost and legume green manures. Dennis takes fields out of cash crop production and puts legumes in for 2-3 years. Sheep manure is composted in a building connected to the greenhouse, which is designed so the heat is used to heat the greenhouse. Dennis uses Sul-po-mag and rock phosphate as supplemental sources of nutrients when soil tests indicate needs.

Crop rotation plays an important role in managing weeds, but Dennis's excellent weed control in vegetable fields depends on his finesse with cultivation equipment. The small vegetables are set in 3 rows 6 inches apart in beds 36 inches apart. Dennis uses a Buddingh basket weeder belly mounted on an Allis Chalmers G when the plants are shorter than an inch. For taller plants and larger crops such as corn, potatoes, and beans he turns to Bezzerides spiders.

Dennis uses botanical insecticides if needed. He also has experience with Bt for Colorado potato beetle.

He rotates his vegetables with green manures and small grains. A common rotation on his farm is vegetables for 3 years, then wheat undersown with alfalfa. Alfalfa is left for a few years after wheat harvest, then the field is put back to vegetables. He will sometimes cut hay from the alfalfa or pasture livestock. Lately, Dennis has turned to an alfalfa/orchard grass mix because it is more competitive with weeds than alfalfa alone. Dennis also uses vegetable land to produce various kinds of tempory pasture such as season extending brassicas.

MacLoed, Bob and Elaine

RR 1 Box 183 Hollis CTR, ME 04042 Cumberland 247 5439



Entry number

tillable acres 2 0 pasture acres' 0 hay acres

Bob raises about 1.25 acres of certified organic vegetables.

All the crops are sold at farmers market.

The farm's fertility is based on compost. Bob supplements with fish hydrolysate.

Insects are controled with Bt and botanicals when necessary.

Vegetables are rotated around the fields and between two main fields.



Dennis King makes use of his legume for feeding his rotation crops livestock (see entry 40).

Maxwell, Ken

Entry number

112 Spuerwink Ave Cape Elizabeth, ME 04107 Cumberland till 799 2940 past

tillable acres 100 pasture acres 0 hay acres 0

Ken and his family raise mixed vegetables on 90 acres and strawberries on 11 to 12 acres

They are experts in marketing produce to their local community. His son and son's wife manage the farm store on a main road in town through which most of the crops are moved. Some of the strawberries are picked by local highschool kids for sale, the rest is sold PYO.

Weed control is handled with a mix of implements. Very little herbicide is used. They have an offset Ford tractor on which they mount a Buddingh basket weeder for cultivating in small crops. Larger crops are cultivated with a Buddingh finger weeder mounted on the Ford or an Allis Chalmers G. They also use Lilliston spiders mounted up front on the offset Ford. Herbicides are used only on some problem crops, and even there are skipped in years when they are not needed, such as the year after a competitive green manure.

Ken is in the IPM program.

The strawberries are rotated with vegetables and rye cover crops. After picking berries for three years rye is planted for winter cover. The following year vegetables are grown, then a rye cover and in the spring back to strawberries. Merrill, Sally

42 Winn Rd. Cumberland, ME 04021 Cumberland 829 5574 43 Entry number

tillable acres 20 pasture acres 20 hay acres 20

Sally raises 3 acres of sweet corn and 14 acres of field corn.

She produces 70 polled Hereford cows and about 75 Dorset sheep.

Sally sells her products off her road side stand. The field corn is for her cattle.

The farms' fertility is based on the livestock manure.

She uses IPM for pest control in the corn.

The corn ground is in rotation with alfalfa hay. Before going back to corn she uses winter rye for a cover crop.



Cultivation is the first line of weed control on the Maxwell farm. A belly mounted finger weeder on an off-set Ford tractor cleans this crop (see entry 42). Miller, Bonnie and Mark (Shawn Keenan) RR 1 Box 1886 Coopers Mills, ME 04341 Lincoln 549 7802



Entry number

tillable acres 30 pasture acres 0 hay acres 10

Bonnie and Mark have recently made a major switch in the emphasis of their farm. In the past it was centered around the production of mixed vegetables and sheep. Now they raise about 4 acres of certified organic strawberries and 3.5 acres of certified organic wheat and hay in rotation.

The strawberries are mostly sold PYO but some are picked and sold wholesale. The wheat is primarily sold to food vendors at the Common Ground Fair.

The fertility is based on rotations with legume green manures. Other sources of nutrients include sul-po-mag, fish hydrolysate, and the straw mulch used on the strawberries.

Excellent weed control is attained by cultivation. In both the small grain and the strawberries Mark uses a Lely spring time weeder. The Lely is used in the strawberries the planting year before the plants send runners. It is only effective with very small weeds so timing is crucial. Mark also use cultivating sweeps belly mounted on a high clearance tractor.

The short rotation and large distance between fields are key to pest control in strawberries.

They pick strawberries only one year. Mark has experimented with a number of different rotation crops and has experience growing a wide range of green manures including rye, oats, various clovers, buckwheat, etc. The rotation they settled on is strawberries followed by wheat followed by a legume hay for at least two more years before going back to strawberries. They overseed the legume hay at the time of the last Lely cultivation in the wheat. This establishes the cover crop and yet the clover is not too tall to interfere with the combine when harvesting the wheat. Miller, Stephen and Barbara

RR 1 Box 125 Stockholm, ME 04783 Aroostook 896 5860

tillable acres 5 pasture acres 10 hay acres 0

Stephen and Barbara have cut back on their production but are knowledgeable growers of organic vegetables. They still grow a half of acre of certified organic garlic, a little bit of certified organic strawberries, raspberries, and blueberries.

They do some local marketing and sell in the farmers market at the Common Ground Fair.

Fertility is based on home made compost, potato waste compost, and legume green manures. Nutrients are also added as fish scales and foliar fish mixes.



Mark Miller has demonstrated excellent weed control in strawberries with a Lely Springtine(see entry 44).

Entry number

Mireault, David



859 S. Witham St. Auburn, ME 04210 Androscoggin 786 3685

tillable acres 1 pasture acres 0 hay acres 0

David raises 1 acre of MOFGA certified organic vegetables concentrating on greens.

David's major market is local restaurants. He also sells at a farmers market.

Soil fertility is based on composted manure, ground leaves, and leaf mold. Nutrients are supplemented with wood ash, fish hydrolysate, and manure tea.

David has experience using Bt for potato beetle and botanical insecticides for a variety of pests. He also uses floating row covers to protect crops.



RFD 1 Box 14 N. Whitefield, ME 04353 Kennebec 549 7165

Entry number

pasture acres 40 hay acres 75

Austin has been adding more and more crops now that he has pulled out of dairy production. The last time I talked to him, he had 4 acres of small grains that he has ground into flour or cereal mixes. He raises 2 acres of dry beans, 1 acre of potatoes, 1to 2 acres of sweet corn and about an acre of other vegetables and strawberries.

Until recently he milked about 50 cows. The last couple of years he was milking Jerseys on a seasonal basis to take the greatest advantage of pasture production and have the least dependence on concentrates. He was feeding very little grain --mostly Maine barley. He has in-depth experience with rational grazing and pasture maintenance.

The crops are sold directly from the farm.

For the most part Austin depends on farm scale composting. He pays a great deal of attention to soil fertility and has experience with alternative methods of maintaining soil nutrient levels, especially micronutrients.

Austin periodically pulls fields out of crop production to put into a green manure such as buckwheat or a legume. All the fields are covered, usually with winter rye for the fall/winter. Fields are rarely planted to the same crop two years in a row.

Austin Moore looks across the fence to the next paddock in his rational grazing system (see entry 47). Moore, Gregory

48

Entry number

HC 68 Box 196 B Cushing, ME Knox 354 2435

tillable acres 4 pasture acres 0 hay acres 0

Gregory raises 2 acres of MOFGA certified organic mixed vegetables and perennial and annual cut flowers.

He markets to local restaurants and directly from his farm stand.

Fertility is based on composted chicken and horse manure from local farms and crop rotation with clovers and alfalfa. Supplemental nutrients are derived from a wide variety of sources, including rock phosphate for long term phosphorus needs and bone meal for a quicker source, sul-po-mag for potassium, foliar-applied fish, dried blood, cottonseed meal, and wood ash.

Gregory has a well planned, 9-year rotation through his fields, which are divided to suit the rotation. The sequence begins with a green manure followed by potatoes, squash, corn, root crops, peas and beans, garlic, leafy greens, and then flowers. Neves, Tony

RFD Box 62 Freedom, ME 04941 Waldo 382 6137 (49)

Entry number

tillable acres	3
pasture acres	0
hay acres	6

Tony raises 15 acres of dry beans and a small amount of potatoes in rotation with his hay.

The beans and potatoes are sold to farm stands, orchards and some retail stores around the state, but most are sold in bulk to regular customers coming to the farm. The hay is sold directly from the farm too.

Much of the fertility is based on conventional bagged fertilizers, but Tony has made an arrangement this year with a dairy farmer for manure.

Very little herbicide is used. Weed control is primarily based on the crop rotation and cultivation. Weeds are controlled in the beans with 2 cultivations with Liliston rolling cultivators.

No insecticides are used on the farm.

Tony has a rotation designed for weed control and to build soil organic matter. He raises beans for 3 years and then hay for 3 years. Rye is often planted for a fall cover crop. The year of establishing the hay ( a timothy/clover mix), Tony plants oats in the spring and seeds down the hay after taking the grain off.



Bambi Jones receiving a delivery of compost made from the trash at the Common Ground Fair(see entry 37). Park, Larry

1	S	
1	1000	1
	50	
	~~	

140

0

0

Entry number Spragueville Rd Presque Isle, ME 04769 Aroostook tillable acres 764 0582 pasture acres' hay acres

Larry raises 60 acres of seed potatoes and about 25 acres of oats. About 50 acres are in green manure.

The potatoes are cultivated twice with discs on the cultivator.

Larry sends his cull potatoes to a local composting project.

Larry is best known for his erosion control. He has years of experience of farming on slopes by use of strip cropping potatoes, timothy, annual rye, and oats. His rotation is one year in potatoes, then one year in green manure that gets plowed back in, or a year in oats for grain. The straw gets plowed back in. He has experience growing annual rye, millet, oats, sorghum, and corn as green manures.

Pearlman, Arnold and Bonnie

Box 3230 Jonesport, ME 04649 Washington 497 2641

51 Entry number

tillable acres 12 pasture acres 0 hay acres 0

The Pearlmans grow 10 acres of certified organic mixed vegetables, including potatoes, beets, carrots, onions, squash, peas, and cabbage. They also have a quarter acre of strawberries and 3 acres of apples.

They sell most of their crop to restaurants and some mail order.

Soil fertility is maintained with compost made primarily from various kinds of fish wastes. Composting is done in pits to conserve nutrients and reduce odors. Soil nutrients are supplemented with sul-po-mag and seaweed.

Weeds are controled with heavy layers of oat straw mulch. Hand hoeing and pulling are important.

Many separated fields and crop rotation are crucial to pest control. Bt is used on Colorado potato beetles.



Larry Park does an excellent job of controlling erosion by strip cropping his potatoes, grass, and oats (see entry 50).

### Perkins, Charlie



Entry number

RFD 1 Box 80 Exeter, ME 04435 Penobscot 379 2921

tillable acres 550 pasture acres 0 hay acres 0

Charlie raises 300 acres of potatoes and 250 acres of oats.

The Perkins market their potatoes to chip plants in the Northeast. Their oats and any other grain they sell ususally goes to a feed company here in Maine.

Herbicide use is reduced by the use of cultivation for some weed control. They use a rear mounted, 4 -row cultivator.

Potatoes are rotated with small grains. Usually oats are grown in non-potato years. The oats are undersown with mammoth red clover. Nearly all of the potato ground is covered in the fall with winter rye. Sometimes the winter rye is grown to seed and the grain harvested. In off years the rye is followed with oats. Charlie has experimented with lupins and although they grew quite well he had trouble with deer eating the crop. Ricker, Wayne and Shirly

Bx 60 Bridge St. Lisbon, ME 04250 Androscoggin 353 4513 Entry number

53

tillable acres 150 pasture acres 50 hay acres 50

The Rickers raise 12 to15 acres of mixed vegetables and sweet corn. They also raise hay and corn silage to feed 40 to 60 heifers.

At one time they ran a dairy, but now they raise only replacement heifers.

The vegetables are sold mostly from their own roadside stand. In addition to the produce, the Rickers sell farm-made compost, either bagged or in bulk.

Fertility is based on the compost, which is made from waste materials received from the local community. They get leaves from the town, food waste from a local college dinning hall, and they mix it with their heifer manure. The leaves are also used for animal bedding that is later put in the compost piles. Windrows are made and the compost is turned with a manure spreader. A flail mower is used to get good particle size and thorough mixing.

Weeds are controled with mechanical cultivation.



Dennis King controls weeds in his organic crops with a wide array of cultivation equipment (see entry 40). Roberts, Tom



Robinson, John

1010 North Rd Dixmont, ME 04932 Penobscot tilla 257 4033 pasta

tillable acres 10 pasture acres 10 hay acres 0

Tom raises 6 acres of certified organic mixed vegetables.

The market is split between farmers markets and natural food stores.

Tom uses compost made from community leaves and mulch hay. He supplements nutrients with sul-po-mag and a commercial organic fertilizer.

They grow a wide variety of organic vegetables and hoop house tomatoes. Nancy and Richard have cut way back on their production as they get ready to retire.

Tom uses Bt for Colorado potato beetles and cabbage worms. Rotenone is used for cucumber beetles. Floating row covers are used to protect crops from cabbage root maggot flies.

The crop rotation is designed to control weeds, avoid insects, and manage nutrients. A basic plan is as follows: year 1 greens, root crops, and herbs are planted for summer harvest and rye for fall cover. Year 2 curcurbits with undersown legumes are grown. Year 3 corn, tomatoes, or cole crops are grown. In year 4 peas are grown in the spring and early summer and then hairy vetch/winter rye planted to begin the year out of cash crop production in a green manure. RFD 1 Athens, ME 04912 Somerset 654 2425



tillable acres 32 pasture acres 40 hay acres 32

Jay grows an acre of certified organic vegetables, nearly an acre of potatoes, a quarter acre of sweet corn, and an acre of winter squash.

He has a variety of marketing outlets. He sells off a road side stand, to specialty stores, at the Common Ground Fair, and runs a CSA.

The basis of soil fertility is composted manure. Nutrients are supplemented with manure tea and commercial organic fertilizer.

Jay uses a variety of weed control techniques. At the heart of the program is his crop rotation. He also uses a two row spider mounted on a three point hitch for his larger crops like potatoes and beans. For the small crops he depends on wheel hoes and hand hoes with hired labor. A rotovator is used to control weeds between rows of squash before they run.

Jay's rotation includes a long lay over in a sod cover, which is the best crop rotation to build soil structure and encourage soil biological activity. His basic plan is: year 1 raise corn or squash, year 2 plant rye or oats with undersown clover, year 3 grow potatoes, years 4-9 the land is in a timothy clover hay crop, and year 10 a clover green manure is planted. Schartner, Herbert and Phylis Knox Ridge Rd. Thorndike, ME 04986 Waldo 568 3668



Entry number

tillable acres 35 pasture acres 0 hay acres 0

The Schartners raise 20 acres of strawberries, an acre of raspberries, 10 acres of sweet corn, and about an acre of mixed vegetables. They also operate an apple orchard.

The strawberries are nearly all sold PYO. The sweet corn and vegetables are sold at farmers market.

The Schartners use liquid dairy manure from a neighbor farm as their chief source of nutrients. The manure is spread before planting corn and before planting new strawberry fields. Fish emulsion is used as a starting solution and at renovation in strawberries.

Herb uses a Badalini as his key cultivation tool. It is a multi-head rototiller that is PTO driven. It is similar to a Multivator. It can come with different head widths and the heads can be set different distances apart. It can be ordered with 2-7 heads and is very suitable to large scale strawberry production.

The corn is IPM. All insect control is based on field scouting. Most years very little insecticide is used.

The basic crop rotation is 2 years of corn and then 4 years of strawberries. Periodically a green manure is planted.

> Al Sherman handles much of his weed problem with a "S" time cultivator (see entry 57).

Sherman, Al

2679 East Conway Rd Center Conway, NH 03813 Carrol 603 939 2412 57 Entry number

ble acres 180

tillable acres 180 pasture acres 0 hay acres 90

Al and his family raise 120 acres of silage corn, 25 acres of sweet corn, 35 acres of mixed vegetables, a half an acre of strawberries, a half an acre of cut flowers, and 5 hoop houses of tomatoes, cucumbers, melons and peppers.

In addition to the crops the Sherman family operates a dairy milking 90 cows.

All the crops are sold out of an on-farm store.

The fertility is met with a combination of manure and conventional fertilizer.

Herbicide use in vegetables and corn is greatly reduced by employing cultivation equipment. An I & J time cultivator with crop guards is used in most crops. A Lilliston cultivator is used for corn.

Al is in the corn IPM program and works very closely with the Extension faculty at UNE.



Shur, Arthur



P.O. Box 490 Island Falls, ME 04747 Arcostook 463 2365

tillable acres 400 pasture acres 0 hay acres 0

Arthur raises about 200 acres of potatoes each year. Cooperating with a dairy farmer an additional 200 acres are used for barley each year. The dairy farmer plants and harvests the barley and leaves the straw, which is plowed back into the soil along with the undersown clover.

Cooperating with a dairy farmer allows Arthur to get additional benefit from the year out of potatoes. Arthur grows one year of potatoes then a year of barley undersown with red clover.



Green manures in the crop rotation also serve as late season livestock feed on Eric Sideman's farm (see entry 59). Sideman, Eric and Barbara Eldridge RFD 1 Box 1455 Greene, ME 04236 Androscoggin 946 7317 pa

59 Entry number

tillable acres 3 pasture acres 4 hay acres 0

Eric and Barbara raise about a half acre of strawberries, a quarter acre of new potatoes and peas, a few early vegetables, and cut flowers. They also produce early tomatoes in a hoophouse. All crops are certified organic.

Eric and Barbara keep a small number of sheep, pigs, broilers, and layers.

The strawberries are sold PYO. The other vegetables and flowers are raised to be ready for sale at the farm only during the strawberry season.

The basis of soil fertility is legume green manures and composted animal bedding and manure. Supplemental crop nutrition is attained with sul-po-mag, rock phosphate, wood ash, fish hydrolysate, and compost tea.

Competitive green manures in crop rotations are the basis of weed control. Cultivation with a wheel hoe and hand hoes.

Crop rotation is the key to managing insect pests of strawberries. Strawberry fields are plowed under immediately after harvest the second year, burying the strawberry clipper. The new fields are distant enough to hamper migration of pests. Bt is used for Colorado potato beetle control. Eric will use botanical insecticides as a last resort. Row covers are used to exclude the cabbage maggot fly from early broccoli.

Strawberries are in a field for three years. Immediately after harvest the second year the strawberries are plowed and a hairy vetch/winter rye mix is planted in mid August. The mix is grown until early June the following year when it is plowed under and crimson clover is planted. In the late summer oats are planted as a winter cover and the land goes back to strawberries the following spring. The vegetable land is taken out of production periodically to grow green manures.

### Smith, Hershel and Greg



Entry number

P.O. Box 189 Blaine, ME 04734 Aroostook 425 3421

tillable acres 3,000 pasture acres 0 hay acres 0

Greg and Hershel raise about 1,500 acres of potatoes, and about 1,500 acres of broccoli.

The crops are sold to chain stores and other wholesale market.

Most of the fertility is based on conventional sources, but Hershel and Greg have been working with compost as a soil conditioner and supplemental nutrient source for quite a few years now. The compost is made from waste potatoes, sawdust, and fly ash. They say it does a good job of conditioning the soil and adding organic matter.

Herbicide use is reduced by use of cultivation for weed control.

Like many farmers the Smiths are still working out their rotation. Since adding brocolli to their crops they have been working on a grain-potato-brocolli-grain sequence. But, they found that they were not getting enough organic matter out of that and now they have added a season of annual rye replacing one of the years of potatoes or brocolli. On early brocolli fields oats are planted after harvest and often reach 2 feet before winter. Snell, Ramona and John

P.O. Box 326 Buxton, ME 04004-0326 York 929 5318 61 Entry number

tillable acres 10 pasture acres 0 hay acres 0

Ramona and John raise 9 acres of mixed vegetables and herbs, plus an acre of potatoes and greenhouse bedding plants, perennials, and seedlings.

The two major outlets of crops are a road side stand at the farm and at farmers markets.

Composted horse manure and legume green manures are the basis of their fertility program. Nutrients are supplemented with banded blood meal, sul-po-mag, and fish hydrolysate.

Mechanical cultivation with sweeps belly mounted on a high clearance tractor is key to weed control. The Snell's also grow living mulches. For example, sweet clover is grown between rows of tomatoes. The tomatoes are planted through black plastic. The following year the tomatoes are grown in the rows where the sweet clover was.

The Snell's are experienced with botanicals and Bt. They also release beneficial predatory and parasatoid insects in the greenhouses.



The Snells use sweet clover as a living mulch between rows of tomatoes(see entry 61).

RR 2 Box 1230



Entry number

Wells, ME 1230 York tillable acres 25 985 2575 pasture acres 0 hay acres 60

Bill and Anna raise 14 acres of sweet corn, 5 acres of mixed vegetables, 5 acres of strawberries, and operate a 7 acre apple orchard. They also raise tomatoes in a home made hoop house.

Most of the produce is sold at their own farm store.

Bill and Anna use mechanical cultivation, crop rotation with green manures, and hand hoeing to minimize herbicide use. Many crops are raised with no herbicide. The cultivating equipment is home made and mounted on a high clearance Kubota tractor.

Bill has a gift for designing and using a welder to build all sorts of equipment, such as a plastic layer, strawberry planter, cultivator, etc.

They are in the IPM program for pest control.

Bill says he has no planned rotation because there are too many factors that seem to foil plans two years out of three. But, they do rotate crops well without a long range plan and make good use of cover crops and green manures. Land is covered with oats or winter rye in the fall. They frequently use buckwheat and oats as summer cover crops. Stevenson, Ford

RR 1 Box 2811 Wayne, ME 04284 Kennebec 685 3532 63 Entry number

tillable acres 25 pasture acres 0 hay acres 0

Ford raises 15 acres of strawberries and 10 acres of sweet corn.

The strawberries are sold PYO and the corn and some of the strawberries are sold directly from the farm.

Herbicide use is greatly reduced by extensive cultivation. Ford uses a rear mounted finger weeder that can be steered accurately over the row by a second driver. He also has adapted much of his equipment for strawberry production. He cultivates with a Lilliston in the corn.

Carefully timed crop rotation helps Ford minimize his pesticide use on strawberries. He uses IPM in the sweet corn.

The basic crop rotation Ford uses is strawberries and sweet corn, because they do not share pests and weed control is very effective during the corn years. He also grows some peas and makes use of green manures and fall cover crops.

Ford Stevenson's rear mounted finger weeder is steered over the row independently by a second driver using hydraulics(see entry 63).



Stutzman, Sid



RR 1 Box 1002 Dover-Foxcroft, ME 04426 Penobscot till 564 8596 past

tillable acres 40 pasture acres 0 hay acres 0

Sid raises 20 acres of potatoes, 2 acres of strawberries, 5 acres of peas, 8 acres of sweet corn and 4 acres of vine crops.

He sells the produce to farm stands and grocery stores.

Sid has designed and built his own cultivator. He wanted something that would be quick to get on and off. He built one that fits a three point hitch and uses "S" times. The "S" times can be rearranged easily to fit row spacing.

He rotates vegetables around with potatoes. All the vegetable land is cover cropped with rye after harvest. Land with early crops builds up quite a lot of organic matter during the late summer and fall. Sid feels this has helped a lot with water holding and has benefited the potatoes. Tangerini, Laura and Charles RR 1 Box 180 North Berwick, ME 03906 York 676 4049 pas

65 Entry number

tillable acres 55 pasture acres 0 hay acres 50

Laura and Charles raise 45 acres of sweet corn, 2 to 4 acres of green beans, 4 acres of peas, a half acre of tomatoes, and about a half acre of strawberries. They also have a hoophouse for early tomatoes.

The produce is sold from their roadside stands and at farmers markets.

The major sources of fertility are chicken and horse manure. They supplement nutrients nutrients with some commercial fertilizer and wood ash.

The Tangerinis use very little herbicide. They depend on mechanical cultivation with belly mounted sweeps, tillers, hand weeding, and black plastic.

IPM is used to manage pests in the sweet corn.

All the vegetable land is covered in the fall with rye. Laura uses millet and oats for green manures in the summer. The millet and oat flower heads are used for dry flower arangments.



The Thayer's manure storage facility protects the environment from runoff of nitrates and conserves nutrients on the farm(see entry 66). Thayer, William and Cynthia



Entry number

Box 570 Gouldsboro, ME 04607 Hancock 963 7771

tillable acres 10 pasture acres' 15 15 hay acres

The Thavers raise two and a half acres of certified organic mixed vegetables and potatoes.

They raise 6 beef cows, lambs from 12 ewes, a dairy cow, 25 layers, and varying numbers of turkeys and pigs. The wool from the sheep is special quality for hand spinners.

The farm products are sold directly from the farm.

Fertility comes from compost and manure with some supplemental liquid seaweed.

Insect control is by crop rotation. Bt is used for Colorado potato beetle and cabbage worms .

They raise the crops on five separate major gardens and a few smaller ones. The vegetable crops are rotated from garden to garden trying to follow a plan based on avoiding pests and diseases and managing nutrients. Many crops are undersown with clovers, which then serve as a winter cover crop.

Thurston, Lynn

14 Glenwood Gorham, ME 04038 Cumberland 839 3803

Entry number

tillable acres 17 pasture acres 0 hay acres 0

Lynn raises particular vegetables that she can sell through her own special marketing channels. This year she had 4 acres of flowering kale, 1 acre of napa cabbage, 9 acres of winter squash, and 3 acres of pumpkins.

Wholesale marketing is Lynn's forte. She used to work in the Boston Produce Market and now works in the winter for a specialty herb and greens company in California.

Dairy manure is the basis of fertility. Lynn uses a commercial liquid starting solution at transplanting.

Weed control is by mechanical cultivation with belly mounted knives and sweeps. Hand hoeing is used extensively.

On the Thurston farm hand hoeing polishes up weed control after mechanical cultivation(see entry 67).



Valcourt, Michael



Entry number

P.O. Box 333 Alfred, ME 04002 York 499 2278

tillable acres 6 pasture acres 0 hay acres 0

Michael raises 2 acres of strawberries, 2 acres of sweet corn, 2 acres of pumpkins, and about an acre of mixed vegetables. He also produces and breeds fall mums.

Michael sells his produce directly from the farm.

He uses some horse manure, greensand and some conventional fertilizer.

The use of herbicides is reduced by using mechanical cultivation. He uses a multivator in his corn.

Michael has developed an interesting rotation, allowing a natural sod to develop for a few years in rotation with his crops. For example, after strawberries he plants winter rye after the last harvest, and allows it to reseed itself the second year and allows a natural sod to develop with it. In corn he sows winter rye in mid August. He mows the stalks after harvest and allows the rye to reseed itself the following season and allows a natural sod to develop. Vegetable land is pulled out of production every few years and seeded to rye. Michael leaves the sod for two to three years before going back to a cash crop. Volckhausen, Paul

RR 2 Box 3760 East Holden, ME 04429 Bancock 667 9212 69

Entry number

tillable acres	9
pasture acres	7
hay acres	1.5

Paul raises 5 acres of mixed vegetables, 2 acres of barley, and 2 acres of oats. All of the crops are certified organic.

Lambs from 20 ewes and varying numbers of broilers, turkeys and pigs are produced each year.

Paul sells most of his produce at farmers markets and sells some wholesale.

Legume green manures and composted animal manures are the heart of soil fertility management on Paul's farm. Nutrients are supplemented with rock phosphate, sul-po-mag, and wood ash.

Weeds are managed by tractor mounted and hand cultivation equipment. Paul has an Allis Chalmers C with vegetable cultivators on it and Besserides spiders that he uses in the larger crops like corn, beans, and potatoes. He also uses the spiders to hill the potatoes. In the small crops that are planted in rows too close together for that equipment, he uses a wheel hoe with knives. Paul also can take the times off his Troy Built rototiller and mount a "V" sweep.

Floating row covers protect crops from difficult to control pests such as cucumber beetles or cabbage root maggots. Bt controls Colorado potato beetle and cabbage worms. Crop rotation plays a major role in managing insect pests and diseases.

Paul rotates his vegetable land with alfalfa and small grains.

Wilcox, Benjamin



Entry number

Box 1010 North Rd Dixmont, ME 04932 Penobscot, ME 04932 234 2795

tillable acres 7 pasture acres 0 hay acres 0

Ben raises four and a half acres of certified organic mixed vegetables and an acre of certified organic potatoes.

Ben concentrates on selling his produce at farmers markets and natural food stores.

Fertility is based on green manures and local sources of manures when available. Nutrient needs are supplement with sul-po-mag, borax, and a comercial fertilizer made from composted poultry manure and feather meal.

Ben's crop rotation with green manures is his first line of weed control. Once every four years or so each field is taken out of cash crop production and put through a series of short duration green manures over the growing season. For example, Ben will grow oats in the spring, plow them under in the late spring, then plant sorghum/sudan grass, plow that under in the late summer and then sow a fall cover. The competitive green manures and the periodic tillage between them offer very good weed control. He also grows legume green manures in rotation to bring nitrogen into his system.

Mechanical cultivation is the second control of weeds. Ben has a Super A with cultivators and hilling discs. For his crops planted in rows too close together for this he uses a wheel hoe.

Ben has extensive experience with organic methods of insect control. He uses Bt to control cabbage worms and Colorado potato beetles. Rotenone is used when necessary for tough insects such the cucumber beetle. Maggots such the cabbage root maggot are excluded with using floating row covers. INDEX

County	Name	Enti
	Agnew	1
Androscoggin	Colson	13
	Gross	33
	Mireault	46
	Bicker	53
	Sideman	59
Aroostook	Devoe	16
	Fitzpatric	23
	Gerritsen	28
	Goughan	31
	Miller, S.	45
	Park	50
	Shur	50
	Smith	00
Carrol (NH)	Sherman	57
Cumberland	Beckwith	5
	Estes	22
	McLeod	41
	Maxwell	42
	Memi	43
	Inurston	07
Franklin	Basile	2
	Casper	12
Hancock	Birdsall	7
	Eggen	19
	Emst	40
	King	40
	Volckhausen	69
Kennebec	Beaudoin	4
Kennebee	Douglass	18
	Elvin	20
	Johnston	36
	Moore, A	47
Knox	Bellmore	6
	Bok	8
	Moore, G	48

Lincoln	Goranson	30
	Jones, B	37
	Miller, M	44
Penobscot	Dorman	17
	Fogler	24
	Frost	26
	Jones, P	38
	Perkins	52
	Roberts	54
	Stutzman	64
	Wilcox	70
Piscataquis	Kafka	40
Rockingham (NH)	Batchelder	3
Sagadahoc	Dennison	15
	Friedman	25
	Gill	29
Somerset	Robertson	55
Waldo	Bowden	10
	Cross	14
	Galland	27
	Greager	32
	Neves	49
	Schartner	56
Washington	Pearlman	51
York	Borkowski	9
	Harris	35
	Hayes	35
	Snell	61
	Spiller	63
(*)	Tangerini	65
	Valcourt	68

INDEX

Entry

Subject	Name	County
Compost		
	Agnew	Androscoggin
	Batchelder	Rockingham
	Beckwith	Cumberland
	Belimore	Knox
	Birdsall	Hankock
	Bok	Knox
	Borkowski	York
	Bowden	Waldo
	Casper	Franklin
	Colson	Androscoggin
	Dennison	Sagadahoc
	Douglass	Kennebec
	Eggert	Hancock
	Ernst	Hancock
	Galland	Waldo
	Gerritsen	Aroostook
	Gill	Sagadahoc
	Greager	Waldo
	Gross	Androscoggin
	Hayes	York
	Johnston	Kennebec
	Jones, B	Lincoln
	Jones, P	Penobscot
	Kafka	Piscataquis
	King	Hancock
	McLeod	Cumberland
	Miller, S	Aroostook
	Mireault	Androscoggin
	Moore, A	Kennebec
	Moore, G	Knox
	Park	Aroostook
	Pearlman	Washington
	Ricker	Androscoggin
	Roberts	Penobscot
	Robinson	Somerset
	Sideman	Androscoggin
	Smith	Aroostook
	Snell	York
	Thayer	Hancock
	Volckhausen	Hancock
	Wilcox	Penobscot

#### Subject County Name

Entry

### **Cover Crops**

Basile Batchelder Birdsall Bowden Casper Colson Dennison Eggert Fogler Frost Galland Goranson Gross Harris Hayes Johnston Jones, B Maxwell Merrill Miller Moore, A Neves Perkins Roberts Robinson Sideman Stevenson Stuzman Thayer

Franklin	2
Rockingham	3
Hancock	7
Waldo	10
Franklin	12
Androscoggin	13
Sagadahoc	15
Hancock	19
Penobscot	24
Penobscot	26
Waldo	27
Lincoln	30
Androscoggin	33
York	34
York	35
Kennebec	36
Lincoln	37
Cumberland	42
Cumberland	43
Lincoln	44
Kennebec	47
Waldo	49
Penobscot	52
Penobscot	54
Somerset	55
Androscoggin	59
Kennebec	63
Penobscot	64
Hancock	66
	00

### Fertilizer

Ash

Birdsall	Hancock	7
Gerritsen	Aroostook	28
Harris	York	34
Kafka	Piscataquis	39
King	Hancock	40
Mireault	Androscoggin	46
Moore	Knox	48
Sideman	Androscoggin	59
Smith	Aroostook	60
Volckhausen	Hancock	69

## Fertilizer (cont.)

Blood meal Bone meal	Agnew Basil Beckwith Borkowski Ernst Gill Gross Hayes Moore Snell Basile	Androscoggin Franklin Cumberland York Hancock Sagadahoc Androscoggin Knox Knox York Franklin	1 2 5 9 21 29 33 35 48 61 2
	Borkowski	York	9
	Colson	Androscoggin	13
	Gill	Sagadahoc	29
	Moore	Knox	48
Compost	(see Co	mpost above)	
Fish waste	Friedman	Sagadahoc	25
	Galland	Waldo	27
	Gerritsen	Aroostook	28
	Gross	Androscoggin	33
	Kafka	Piscataquis	39
	McLeod	Cumberland	41
	Miller, B & M	Lincoln	44
	Miller, S.	Aroostook	45
	Mireault	Androscoggin	46
	Moore, G.	Knox	48
	Pearlman	Washington	51
	Schartner	Waldo	56
	Sideman	Androscoggin	59
	Snell	York	61
Legume in		and the second second	6
rotation	Batchelder	Rockingham (NH)	3
	Birdsall	Hancock	7
	Borkowski	York	9
	Bowden	Waldo	10
	Casper	Franklin	12
	Colson	Androscoggin	13
	Devoe	Aroostook	16
	Doman	Penobscot	17
	Eggert	Hancock	19
	Ernst	Hancock	21
	Fitzpatirc	Aroostook	23
	Fogler	Penobscot	24

# Fertilzer Legumes (cont.)

reguinee (e	Friedman	Sagadahoc	25
	Gerritsen	Aroostook	28
	Goranson	Lincoln	30
	Gross	Androscoggin	33
	Harris	York	34
	King	Hancock	40
	Miller B & M	Lincoln	44
	Miller S & B	Aroostook	45
	Sideman	Androscoggin	59
	Snell	Vork	61
	Volckhausen	Hancock	69
Manure	Agnew	Androscoggin	1
	Basile	Franklin	2
	Batchelder	Rockingham, NH	3
	Beaudoin	Kennebec	4
	Beckwith	Cumberland	5
	Bellmore	Knox	6
	Birdsall	Hancock	7
	Borkowski	York	9
	Bowden	Waldo	10
	Carter	Oxford	11
	Casper	Franklin	12
	Colson	Androscoggin	13
	Cross	Waldo	14
	Dennison	Sagadahoc	15
	Devoe	Aroostook	16
	Dorman	Penobscot	17
	Douglass	Kennebec	18
	Eggert	Hancock	19
	Elvin	Kennebec	20
	Ernst	Hancock	21
	Fogler	Penobscot	24
	Friedman	Sagadahoc	25
	Galland	Waldo	27
	Gerritsen	Aroostook	28
	Gill	Sagadahoc	29
	Gross	Androscoggin	33
	Hayes	York	35
	Johnston	Kennebec	36
	Jones	Lincoln	37
	King	Hancock	40
	Merrill	Cumberland	43
	Miller, B&M	Lincoln	44
	Miller	Aroostook	45
	Mireault	Androscoggin	46
	Moore, A.	Kennebec	47
	Moore, G.	Knox	48
	Neves	Waldo	49
	Ricker	Androscoggin	53

Fertilizer	Robinson	Somerset	55
Manure (cont.)	Schartner	Waldo	56
	Sherman	Carrol, NH	57
	Sideman	Androscoggin	59
	Snell	York	61
	Tangerini	York	65
	Thaver	Hancock	66
	Thurston	Cumberland	67
	Valcourt	York	68
	Volckhausen	Hancock	69
	Wilcox	Penobscot	70
Rock Phosph	ate		
	Agnew	Androscoggin	1
	Beckwith	Cumberland	5
102	Birdsall	Hancock	7
	Colson	Androscoggin	13
	Douglass	Kennebec	18
	Gross	Androscoggin	33
	Hayes	York	35
	King	Hancock	40
	Moore, G.	Knox	48
	Sideman	Androscoggin	59
	Volckhausen	Hancock	69
Sul-Po-Mag	Agnew	Androscoggin	1
	Basile	Franklin	2
	Batchelder	Rockingham, NH	3
	Birdsall	Hancock	7
	Douglass	Kennebec	18
	Galland	Waldo	27
	Gill	Sagadahoc	29
	Kafka	Piscataquis	39
	King	Hancock	40
	Miller, B&M	Lincoln	44
	Moore, G.	Knox	48
	Pearlman	wasnington	51
	Hoberts	Penobscot	54
	Sideman	Androscoggin	59
	Snell	YOR	61
	Volckhausen	Hancock	69
	WIICOX	Penonscol	/0

### Green Manure

Agnew	Androscoggin	1
Batchelder	Rockingham, NH	3
Belimore	Knox	6
Birdsall	Hancock	7
Bowden	Waldo	10
Colson	Androscoggin	13

16 19 21 22	
19 21 22	
21 22	
22	
23	
25	
25	
20	
20	
20	
29	
30	
32	
30	
31	
38	
39	
40	
44	
47	
48	
50	
54	
55	
56	
59	
62	
63	
65	
69	
7	
17	
24	
34	
40	
43	
69	
1	
3	
7	
13	
15	
29	
30	
33	
36	
37	
54	
59	
	2 2 2 3 5 6 7 8 9 0 2 6 7 8 9 0 4 4 7 8 0 4 5 5 5 5 6 9 2 3 5 6 9 7 1 7 4 4 0 3 9 1 3 7 1 1 5 9 0 3 3 6 7 4 9 1 3 7 1 1 5 9 0 3 3 6 7 4 9

<b>Red</b> clover	Colson	Androscoggin	13	
		Dennison	Sagadahoc	15
		Devoe	Aroostook	16
		Fitzpatric	Aroostook	23
		Friedman	Sagadahoc	25
		Gerritsen	Aroostook	28
		Johnston	Kennebec	36
		Perkins	Penobscot	52
		Shur	Aroostook	58

### Horses (work)

Agnew	Androscoggin	1
Basile	Franklin	2
Birdsall	Hancock	7

 $\begin{array}{c} 18\\ 19\\ 21\\ 25\\ 27\\ 28\\ 32\\ 33\\ 35\\ 37\\ 38\\ 39\\ 40\\ 44\\ 45\\ 51\\ 55\\ 59\\ 69\\ 70\\ \end{array}$ 

### Organic

Aanow	Androscoggin
Agnew	Erocklin
Dasil	Pratikini Rockingham NH
Batchelder	Cumberland
Beckwith	Cumbenand
Birdsall	Hancock
Bok	Knox
Casper	Franklin
Colson	Androscoggin
Douglass	Kenebec
Eggert	Hancock
Ernst	Hancock
Friedman	Sagadahoc
Galland	Waldo
Gerritsen	Aroostook
Greager	Waldo
Gross	Androscoggin
Haves	York
Jones, B	Lincoln
Jones, P	Penobscot
Kafka	Piscataguis
King	Hancock
McLeod	Cumberland
Miller, B&M	Lincoln
Miller. S	Aroostook
Moore, G.	Knox
Pearlman	Washington
Roberts	Penobscot
Bobinson	Somerset
Sideman	Androscoggin
Volckhausen	Hancock
Wilcox	Penobscot

## Pest control

Bt

	Agnew	Androscoggin	1
	Basile	Franklin	2
	Beckwith	Cumberland	5
	Birdsall	Hancock	7
	Bowden	Waldo	10
	Devoe	Aroostook	16
	Douglass	Kennebec	18
	Ernst	Hancock	21
	Gerritsen	Aroostook	28
	Goranson	Lincoln	30
	Johnston	Kennebec	36
	Jones	Lincoln	37
	Kafka	Piscataguis	39
	King	Hancock	40
	Mcleod	Cumberland	41
	Mireault	Androscoggin	46
	Pearlaman	Washington	51
	Roberts	Penobscot	54
	Sideman	Androscoggin	59
	Snell	York	61
	Thaver	Hancock	66
	Volckhausen	Hancock	69
	Wilcox	Penobscot	70
cal			
ides			
	Basile	Franklin	2
	Bowden	Waldo	10
	Douglass	Kennebec	18
	Ernst	Hancock	21
	Gill	Sagadahoc	29
	Johnston	Kennebec	36
	Jones	Lincoln	37
	Kafka	Piscataguis	39
	King	Hancock	40
	Mcleod	Cumberland	41
	Mireault	Androscoggin	46
	Boberts	Penobscot	54
	Sideman	Androscoggin	59
	Snell	York	61
	Wilcox	Penobscott	70
	THICOX.		
	Bellmore	Knox	6
	Cross	Waldo	14
	Elvin	Kennebec	20
	Goranson	Lincoln	30
	Maxwell	Cumberland	42
	Merrill	Cumberland	43
	Schartner	Waldo	56
	9.729.729.979.945.745C)		

Botanical pesticides

IPM

IPM (cont.)			
	Sherman	Carrol(NH)	57
	Spiller	York	62
	Stevenson	Kennebec	63
	Tangerini	York	65
Crop rotation			
	Basile	Franklin	2
	Batchelder	Rockingham (NH)	3
	Beckwith	Cumberland	5
	Beilmore	Кпох	6
	Borkowski	York	9
	Colson	Androscoggin	13
	Doman	Penobscot	17
	Ernst	Hancock	21
	Johnston	Kennebec	36
	Jones, P.	Penobscot	38
	Miller	Lincoln	44
	Pearlman	Washington	51
	Roberts	Penobscot	54
	Sideman	Androscoggin	59
	Stevenson	Kennebec	63
	Thayer	Hancock	66
	Volckhausen	Hancock	69
Row cover			
	Birdsall	Hancock	7
	Carter	Oxford	11
	Colson	Androscoggin	13
	Douglass	Kennebec	18
	Johnston	Kennebec	36
	Jones, B.	Lincoln	37
	Mireault	Androscoggin	46
	Roberts	Penobscot	54
	Sideman	Androscoggin	59
	Volckhausen	Hancock	69
	Wilcox	Penobscot	70
Weeds, Mech	nanical Contro	bl	
Backot woodo	r (Buddingh)		
Busket Weede	Batchelder	Bockingham NH	3
	Coleon	Androscoggin	13
	Dennison	Sanadahoo	15
	Ernet	Hancock	21
	LING		

Hancock

Kenebec

Cumberland

Rockingham, NH Cumberland

King Maxwell

Maxwell Stevenson

Finger weeder (Buddingh) Batchelder 40

42

3 42 63

Springtine (	Lely)		
	Miller, B&M	Lincoln	44
Wheel hoe			
	Bowden	Waldo	10
	Elvin	Kennebec	20
	Johnston	Kennebec	36
	lones	Lincoln	37
	Bohinson	Somerset	55
	Cidoman	Androscoggin	59
	Volekhausen	Hancock	69
	Wilcox	Penobscot	70
Other mech	ianical cultivator	Kannahaa	4
	Beaudoin	Kennebec	6
	Bellmore	Knox	11
	Carter	Oxford	12
	Colson	Androscoggin	13
	Cross	Waldo	14
	Dennison	Sagadahoc	15
	Elvin	Kennebec	20
	Frost	Penobscot	26
	Gerritsen	Aroostook	28
	Goransen	Lincoln	30
	Couchan	Aroostook	31
	Gougnan	Kannahaa	36
	Jonnston	Kennebec	53
	Ricker	Androscoggin	54
	Roberts	Penobscot	55
	Robinson	Somerset	55
	Schartner	Waldo	50
	Snell	York	62
	Spiller	York	62
	Tangerini	York	65
	Thurston	Cumberland	67
	Valcourt	Cumberland	68
	Volckhausen	Hancock	69
	Wilcox	Penobscot	70
Weed		*	
control			
Crop rotati	on		
	Agnew	Androscoggin	1
	Bellmore	Knox	6
	Birdsall	Hancock	7
	Bowden	Waldo	10
	Colson	Androscoggin	13
	Dennieon	Sagadahoc	15
	Ernet	Hancock	21
	Enist	Cumberland	22
	Esids	Sagadahoc	25
	Friedman	Banahacat	26
	Frost	Aroastack	28
	Gerritsen	AIUUSLUUK	20

29
30
36
40
42
49
54
59
62
63
70