Sustainable Agriculture Research and Education Program Farmer/Grower Grant Final Report Format

Please follow the format below in your final report.

1.	Restate the goals of your project. Law strate methods of fasture management to diorge high quality forage for Northenstern Stass Jarmor Programmer
2.	Update the information on your farm since you received a farmer/grower grant. Include acres farmed, crops/livestock. Acres farmed: 125 AC RODS: Be Neutron grass/hegune
3.	Who were your cooperators and what were their roles in the project? Bruce Clement - NH Coop Ext MR. David Green Neverly Ag H. David Kennard - Wellscroff Farm, Cheshem NH
4.	Tell us what you actually did in your project and how it was done. Planted Alternative Successive Season Crops to extend in crease forese/Extend Brazing Season
5.	What were your findings and accomplishments? Did you have unexpected results? If so what were they? Drough to make found me dull found to
6.	measure, but we would seese this seystan again. Sook-lip Thosphorus from Soil - Was A due to poultry Manure Is there any specific site information relevant to your project or the results? Next time would use another prasicus, Cathe ate turnips, which fimited our ability to Multi-Crop-inculd try kale/sweden
7.	What were your economic findings (if relevant to your project). Atternatives to chemical application - limit use of Herbicide
8.	Have the results from your project generated new ideas about what is needed to solve the problem you were working on? What would be the next step? Use of Brasicus alone - They did a great job limiting weeds; the tricale/fieldpea wasn't very beneficial (Drought)
9.	Will you continue to use the practice you investigated? Why or why not? Uses, the Brasius - benefits thosp high Phosphorus misoil, a good cool season crop.
10.	What do you tell other producers about your project and the results? It worked we were satisfied whesults
11.	Explain what you did in your outreach program. Please send a copy of any articles written about your project Pastive Walk. Interviewed by Sherri Russell- Commercy Rolles
12.	Complete the farmer profile (enclosed)



FOCUS ON **New England Beef**

Fall 1999 Newsletter



Turnips Extend Grazing and Improved Fetility at Walpole Beef Farm

WALPOLE, NH -

The Brookfield Farm in Wal-New Hampshire hosted a pasture walk on October 26 to share the results of trials with brassicas as a supplement pasture forage for

Chris and Holly Gowdy were awarded a grant this year to experiment with the brassica family, and used the funding to purchase turnip seed. They planted ten pounds of seed per acre on a six after harvesting Triticale on the same field. Part of their goal, beyond having a late season pasture crop, was to smother out old sod in the field with

One surprise of their experiment was that the lurnips tested at 26 percent crude protein, on a dry matter basis. In late October, the plants were still growing and they were told that they could expect to graze the field two or three times. Chris said he didn't know if this vould be true with his beef cows, as, he ob-served, "My cows are pulling the plants right out of the ground, eating the roots and all."

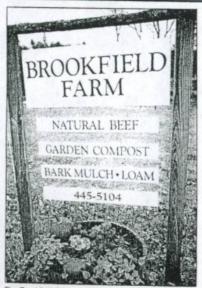
The couple has 27 head of Black Angus, and a combination of purebred crosses termed Black Baldies". experience has been that the cross breeds gain better, are a little healthier, and that Black Baldies bring a premium price at sales. They used Al stres this year, and have cross bred with Hereford, Simmental and Shorthorns

This is their fifth year in business, they no 14 brood cows, and the rest are heifers and steers. To match the available land, the couple atms to build to a herd of 20 brood cows. They own 65 acres, with 20 acres in and also farm some rented land, so manage about 120 acres with 80 acres in grazing in combination with hay-ing. They sell round bales to other farmers as a side

One of their goals is to raise all their own feed. Last year they purchased three tons of grain, buy-ing whole corn and feed-



Chris and Holly Gowdy with their helpful dogs, Louis and Dinkum. The Gowdys experimented with turnips as a pas-ture feed this summer. photos by Sherry Russell photos by Sherry Russell



The Brookfield Farm is diversified, selling beef directly to customers and using their land to support the farm by selfing fertile soil and compost to gardeners.

day to calves and the 18 to 24 month old animals that are heading for a sale. They would like to cut their purchase to no grain. They promote their beef as "grass raised", and move the animals in pastures that are six to eight acres every week to two weeks.

Chris worked for Dave Kennard for ten years before starting his own beef farm so was trained in use of pastures for raising sheep. Both Chris and Holly raised animals through the 4-H program as children. She attended North Carolina State and earned a degree in Animal Science and he studied Animal Hus-bandry at Cobleskill College in New York.

They moved to Walnole VT from Walpole, Massachusetts five years ago with eight beef animals. Both have other jobs: Holly works for Hubbard Farms, a poultry farm in Walpole that strives to improve poultry genetics. Chris does mowing and plowing for the state highways, and also does ne custom baling "on the side"

The Hubbard Farms shares its poultry man-ure with Walpole farms. and the Gowdys are the lucky recipient of some of those nutrients. They have been striving to improve their land the combination of composted chicken manure. their own beef cow manure, some of which they compost, and some added fertilizer. Chris said he applied about 50 pounds per acre of amionium nitrate to some fields last year, and has applied three to five tons per acre of composted poultry manure on a 40 acre field, to improve fertility. He also sells compost, bark mulch and loam from the farm to local gardeners.

Marketing Outstrips

The Gowdys are finding the demand for their meat exceeds their ability to supply it. They sell beef by the side and by cuts at their farm using their own federal inspection label and Sharon Beef for processing. Holly said, "We need to in crease our herd size to keep up with demand " They calve in spring and fall, a schedule that helps them have animals for the Maine Beef Expo and to sell feeder calves in spring.

On the day of the pas ture walk, the couple had set aside four calves to bring to the October 30 First Annual Northeast Club Calf Sale at UNH.

12th Annual Maine Beef **Producers Conference to** Focus on Forage

by Dottie Labe

BANGOR, ME-Foraging into the Next Centuis the theme of the Maine Beef Producers As-sociation's 12th annual conference scheduled at the Ramada Inn here December 4

Planners see the focus on forages as being of in-terest to more than beef producers and welcome those who raise other animals or run mixed oper-

Forage is really imporrorage is really impor-tant for a successful live-stock operation, com-ments Deanna Potter of the University of Maine Cooperative Extension and coordinator of the event. The northeast is a great place to raise forages, but they are something that we undervalshe observes.

The conference, scheduled at the Ramada Inn. leads off with Dr. Thomas Field, associate professor, Department of Animal Sciences at Colorado University, discussing, "Foraging into the Next Century."

Later in the day, Field will address "The Cattle-

Forage Connection."

Dr. Ed Charmley, researcher-in-charge of the Agriculture and Agri-Food Canada Crops and Livestock Research Cen tre at Nappan, Nova Scotia, will focus on "Recog-

In the afternoon Charmley will discuss. "Forage Systems Com-parison".

Dr. Tim Griffin, sus tainable agriculture spe-cialist with the University of Maine Cooperative Ex-tension, will speak on. Forage Troubleshoot

ing".
Also on the agenda is
Aubrey Davis, director of
the New England AgriculClatiatics Service, for ture Statistics Service, for an "Update on Cattle Statistics'

Conference doors open at 8 am for registration. The program will get underway at 8:45. Awards ceremony and "year in re view" are scheduled at lunch

For further information contact Dee Potter, (800) 287-1421 (in Maine) or (207) 834-3905 (from outside Maine).

The sales, sponsored by the New England Sim mental Association and the Maine Angus Association, brought average prices of 70 cents a pound, and the Gowdys did not sell their calves at that price. Instead they planned to attend a November 6 sale at the University of Connecticut, and hope for better

Selling meat directly to customers, by the cut and at the farm brings the best price for beef. They charge 82.25 for a whole animal, \$2.50 for a whole animal, \$2.50 for a side, and \$3.00 per pound by the quarter. Cuts are boxed in a 25 pound minimum and bring a range of \$2.00 for ground beef and \$4.00 for steaks, and it was suggested by their visi ors on the pasture walk that the steaks could be priced higher.

The carcass traits are criteria Chris and Holly use when selecting

bulls. They look at marbling. "cutability". milk-ing ability, but said calv-ing ease is their first priority. Raising beef on grass has begun to reveal certain advantages, in that research is showing the meat is higher in CLA's and Omega 3, and as consumers begin to understand this, it will a marketing advantage.

Heidi Smith of NRCS in Walpole said another research study has shown grass fed animals will be less likely to have e. coli show up in their manure. Smith and UNH Extension Specialist Bruce Clement were on hand for the pasture walk to add their expertise to the discussion. Smith said a new statewide grazing coalition is form ing this fall. Anyone who wants more information can contact her at #(603) 756-2988. or email

(cont. on next pg.)



NEW ENGLAND BEEF NEWS

(cont. from prev. pg.)

heidi smith@nh.usda.go

The grant that paid for the turnip trial was a 'Farmer Grower Grant' awarded by Sustainable Agriculture Research Ed-ucation, or SARE. A new round of funds will be awarded in the spring, and anyone interested can contact Smith or Bruce Clement at #(603) 352-4550

Clement, who raises sheep himself, assisted with helping the Gowdys analyze their forage and soil tests, which were also paid for by the grant. Chris said seeing his hay analysis was also a sur prise, as it was high in protein. The DHI Forage Testing Lab showed a Relative Feed Value of 111 for Triticale, with 100 being average. The "Mostly Mixed Grass" (MMG) silage had a Relative Feed Value of 102, with crude protein at 17.8 percent, and Total Digestive Nutrients of 64 percent.

TDN for their The Triticale was 64 %, and crude protein on a dry atter basis was 19.2 %. The Brassica Rops Tur-nips had 26.1 % crude protein on a dry matter basis and TDN of 76 %.

Christ said he planted Triticale with no till in the last week of April on six acres at the rate of 150 pounds per acre and put up 21 round bales eight reeks later. The year before the same six acres yielded 14 bales of regular grass, he noted. Before he planted the turnips. Chris said he went over the field twice with a disc harrow. was a run down field." Chris said. "and that's why I used this." Next year he wants to do the same on an 18 acre piece and thinks he will save money by not having to use herbicides to break up old sod. Looking over his six acre field of tur-nips. Chris observed. "The grass is all gone, this is all I have left."

Clement said field trials in Michigan and Pennsy-Ivania have shown that brassica is very cost effective. He said other varieties can also be used equally as well, with Rape, Tyfon and Kale being top choices. "If you plant in May, they will grow rapidly," Clement said. He pointed out that a field trial at Stonewall Farm in New Hampshire had shown that feeding turnips did not affect the



A beef cow drinks from a Rife Pasture Pump which draws water from a stream via a simple centrifical action, much like a hand pump.

milk of dairy cows. Chris noted, the turnips are 90 percent water and high in protein, so he feeds dry hay to go with it, as a stabilizer. His animals are fenced in with just one strand of electric wire, Chris said, and he has not had a problem with keeping them contained as long as they have good feed in their pasture. Their dog Louis,

a Border Collie, is like "one and a half people" in helping move the cattle. Chris said.

The couple led the group to a stream where they have fenced off the water and are using a Rue Pasture Pump during the warm months (the pump would freeze in winter). They purchased the pump this spring for 8361, and said is

handle 30 head of full size animals. It works on a simple mechanical basis using centrifical force, like a hand pump. with the action of cows pushing a lever to bring up water from the brook For pastures that do not border a brook Chris said he uses a 1,000 gallon water tank wheeh he fills and trucks to the pas-tures. In the winter

the summer he plants pumpkins in that pen, which is rich in nutri-The calves on this farm stay with their mothers for up to eight months. until the cow weans the calf herself. They vaccinate newborn calves with

Calf Guard, to prevent

upper respiratory dis-

eases and parainfluenza

months, he brings all his

animals to a pen along-

side a pole barn, and in

They give annual boostand also vaccine to calving, and ers. prior worm their animals twice a year.

For the future, the couple is considering moving toward organic beef, and will focus on improving their soil fertility with the use of crops, compost and some fertilizer. They put up 300 round bales this year, so have plenty of their own hay silage with extra to sell. They find raising beef on grass results in a better mar-bled meat, and their customers' demands are outstripping their ability to With their foundation of knowledge. this couple is poised experiment with new forges that will improve on what is already a good beef program at Br

Beef Farmers Hold Annual Fall Sale

by Denise Russo Vermont Department of Agriculture

Four hundred and eighty three of Vermont's best beef cattle took cen ter stage at noon on Saturday. October 16 at the Vermont Beef Producers Association's (VBPA) 8th Annual Fall Cattle Sale at Addison County Commission Sales in East Middlebury. VT. A record number of buyers paid prices equal to or, in some cases high-er, than prices paid for similar cattle in Virginia the same week. "We cal-culate on receiving five to seven cents less than national prices account for trucking. according to Roger Clapp. Deputy Commissioner for Agricultural Develop-ment. "These were good prices and the buyers were bidding on quality cattle."

Building on a success ful spring sale. Vermont's hard working beef producers continue to make improvements quality of cattle, the setip before the sale, and the flow of the sale itself. Only 25 head did not meet the sale requirements.

Any producer consigning non-conforming cat-tle is charged a \$25 fine per head. VBPA Director George Munson made some changes in the pen-ning and co-mingling of

8416.67. Hillcrest Farm from New Hampshire offered a class winner from the open Hereford receiving \$510. Johnston Family Farm. ME, received bids of \$440 and \$300 for two Simmental heifers.

animals before the sale moving all pens outside the sale barn and grouping all calves and yearlings in two different areas. Taking USDA Grader Corbitt Wall's advice, all steers were sold first, followed by the helfers.

A beautiful pen of 40 uniform Angus steer calves weighing between 400 to 500 brought 93 500 pour 93 cents pound, the high price of the day. On average, there was at least a six cent spread between Angus and Hereford cattie. The average price paid per animal was 78.51 cents per pound. Buyers from Maine to Nebraska bought cattle Vermont The Producers Association is holding its annual meeting on November 6, 1999 at the Town and Country Resort in Stowe, VT. more information call Denise Russo at (802) 828-3829.

Vermont is known for its dairy cattle, but over 12.000 beef cattle populate the Green Mountain state. Beef cattle are smaller and lighter yet more heavily muscled than their more famous sibling, the dairy cow. A full grown Holstein cow, weighs 1400 pounds while a full grown Angus cow weighs 1000 pounds There are over 1000 beef cattle farms in Vermont Windsor county boasts the highest number of both beef farms and beef cattle. Windsor county farmers raise over 2000 beef animals on 160 farms. Rutland county comes in at second place

(cont. on next og.)

Prices Up At Maine Feeder Cattle Marketing

RICHMOND-Once again Angus and Angus cross calves brought the highest prices at the Maine Beef Producers Association (MBPA) fall feeder cattle auction held at the D & S Coral. October 15. Overall the sale was very positive with seven buyers paying 8134.454 for 182,090 pounds of beef for an average of 8.74 per lb. according to David Averill, State livestock David specialist. This is up somewhat from last year's \$.68 per lb. Twenty six producers pooled their cattle for the sale. A total of 344 head were weighted and sorted into lots by Department of Agriculture personnel. Twelve buyers registered for the sale engaged in brisk bidding as all of the cattle were sold in 75 minutes under Auction-

eer Dick Brown's gavel. The Angus and Angus cross steers brought the top prices. A pen of 18 black steers averaging 439 lb. topped the sale at \$.84 per lb, and another pen of 15 steers received \$.83 per lb. The average for all 89 Angus and

Angus cross steer calves was 8.80 per lb

Reg Angus Tops Heifer Prices

The top heifer lot was a pen of ten Red Angus helfers receiving 8.74 per lb. A lot of black heifers averaging 492 lb brought 8.76 per lb while another group received 8.75 per . Hereford calves sold much higher than last year. A pen of nine steers averaging 380 lb sold for 8.75 per lb, about a 20 cent increase above last year. There were no straight bred exotics in the sale, but there were crosses of Simmental, Charolois, and Gelbyieh with Angus and Hereford head that also sold well.

According to Averill the quality of sale animals keeps improving with more auniformity preferred by buyers. The reconditioning program adopted by MBPA also attracts the out-of state buyer. About 60% of the cattle went to Iowa this year. A top volume buver for the past seven years. Wythe Willey of Cedar Rapids, IA, commenting on the load of Angus steers he bought was "Find me a better group of calves than that, you can't." Five instate buyers representing all areas of the state were repeat buyers as well.

Much of the sale success goes to sale chairman Paul Randall of Pownal and his committee of volunteers bringing coral panels for pens and other setup tasks as well helping with tear down.

A breakdown of sale results for some of the groups of calves with the average price per pound were as follows: 89 black steers-8.80, 12 red Angus steers-8.77, five Short horn steers-8.77, 43 exotic cross steers-8.74 68 red steers-8.70, 26 thin black steers-8.68, ten red Angus heifers-\$.79, 70 black heifers-8.72. 14 red heifers-8.71, and seven yearling heifers-8.66.

MBPA Club Calf Show

and Sale Great Success Fryeburg Fair—The number of entries was up prices were higher than last year for the sale and show, according to David Averill. State Livestock Specialist. Fifteen steers divided into three weight classes were judg-

ed by Larry McCore Aldemere Farm. Cary Gonyer, and Owls Hill Acres Farm were the three class winners in heavy, medium and light weight classes respectively. No champion or re-serve champion were picked this year. The heifers were not shown, but paraded before the with commentary given on them.

Twenty two steers in the 1999 sale averaged 81.04 per lb. The top price at \$1.80 per lb was received by Steve McGee, Gardiner, in the light weight class goes to Adie Qualey. Limerick. Cary Gonyer's winner in the medium weight class brought 81.55 per lb. from Jessica Orr of Farmington. Norman Jack of Buckfield topped the light weight steers with \$1.50 per lb from Mallary Thurston, Rum-ford, Steve McGee sold a second calf for \$1.35 per to Jason McKennon and Norman Jack and Bill Coutts each sold a steer for \$1.30 per lb to round out the top prices

for the day.

Three heifers were sold by the head averaging