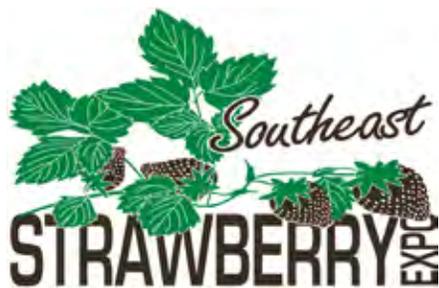


THE STRAWBERRY GROWER

NORTH CAROLINA STRAWBERRY ASSOCIATION

SEPTEMBER, 2008. VOL. 14, NO. 9



Expo Presenters Will Share Expertise and Experience

This year's Southeast Strawberry Expo taps some very knowledgeable presenters for sessions that should be of great interest to attendees. Here are just a few of them.

During the Expo tour, **Victor Lilley** of Reddick Fumigants will do a demonstration session on fumigant safety and adapting your equipment for the new fumigants. Every grower who does his own fumigation should be sure to hear this!

If you are concerned about labor for your farm, be sure to come to "The Growing Challenge – Farm Labor 2009 and Beyond" led by **Lee Wicker**, who has worked for NC Growers Association since 1997, works as a consultant with growers in other parts of the country and is a farmer himself, raising tobacco in Lee County. Expect practical lessons, strategies, discussions, and solutions.

Want to add value – and use surplus – by processing some of your fruit? We've been lucky to get NCSU food processing expert **John Rushing** to talk at the Expo on this topic...just days before his retirement.

Websites and email can be powerful tools for getting the word out about your farm. We'll have sessions both for beginners and those who want to improve an existing site. If you've seen his two articles in recent newsletters, you will have noticed that presenter **Simon Huntley** of SmallFarm Central has lots of practical suggestions.

Tossing huge amounts of plastic into the landfills is one of the weaknesses of the plasticulture system. **Bill Lamont** of

Make Your Expo Hotel Reservations!

Make your reservations now at the Charlotte University Place Hilton for the Southeast Strawberry Expo. Our special rate of \$99/night is good through October 6, but you will want to register early in case the block fills up (especially Wednesday night). The rate will be *much* higher if you wait until after October 6. To register, call 704-547-7444 or 1-800-HILTONS. Be sure to mention our group code, SSE. To register on-line go to www.ncstrawberry.com, and click on the link you find there.

Penn State will talk about their exciting new project to turn waste plastic – even dirty mulch – into a non-polluting fuel. You'll also learn about a new effort to develop plastic much recycling in NC.

We would be remiss not to mention the many highly respected NCSU extension experts who will speak in several sessions including **Barclay Poling**, **Frank Louws**, **Jim Ballington**, and others.

Tapping Grower Experience

One of the greatest strengths of the Expo is its emphasis on grower expertise. You are the experts! You'll learn a lot from **Doug**, **Michelle**, and **Randall Patterson** when they talk about their farm's production and marketing on the tour. In general sessions, we spotlight South Carolina grower **James Cooley** and his farm's innovative production practices and superb marketing. The spotlight also falls on Chesterfield Berry Farm in Virginia – **Shannon Mangunson**, Aaron and Mary Goode's daughter, will speak on the farm's amazing juggling act of over 50 vegetables, strawberries, blackberries, two festivals, and more. Expect to hear from many other growers and to share your own experience in the Forum sessions on marketing, plant supply, and high tunnels.

Check the chart on page 5 to learn more about the program; contact the NCSA office if you have questions. ❖

Fumigation Survey – Have We Heard from YOU?

The NC Strawberry Association is preparing comments on behalf of growers in our region in response to the stringent new EPA rules for the fumigants methyl bromide, chloropicrin, dazomet, and metam sodium (Vapam) due to go into effect in 2010. Similar rules are already in place for Telone and iodomethane (Midas). *See the detailed article last issue.*

To help make our comments effective, we are asking growers to respond to a very short survey. This has been sent out via email – thanks to the many who have already responded... we're waiting on the rest of you! If you don't do email, see **the survey on page 8**. Simply jot down your answers and mail or fax them to the NCSA office – or even call them in. No growers will be identifiable in our response to EPA, but the more factual our information, the stronger our case is.

The deadline for comments is September 15, so we need your responses right away. Consider sending your own comments as well. You can learn more about the regulations and comment process, at http://www.epa.gov/oppsrrd1/registration/soil_fumigants/.

Strawberry Plant Sales Bulletin Board

Do you need to find a home for extra plants? Do you need to buy some more? We all know that supply and demand can get a bit hectic during the planting season. The Strawberry Association has created a web-based **Plant Sales Bulletin Board** where both nurseries and growers can post notices. Members can post, change, or remove their own notices. Visit the link on the home page of www.ncstrawberry.com. If you don't want to post your own message, just call or email it to the NCSA office.

Preplant Disease Alert for the 2008-2009 Strawberry Season

By Mahfuzur Rahman and Frank Louws, NCSU Dept. of Plant Pathology

Strawberry growers in North Carolina and the Southeast have experienced a year of Glo horror with some growers losing as much as 90% of the crop. Many factors such as prevalence of a more aggressive strain of *Colletotrichum gloeosporioides* and a hot dry summer and fall may have aggravated the situation. Pathogenicity trials of isolates collected from fields with greater loss have revealed higher aggressiveness under greenhouse conditions.

Ideally, growers who lost 60-90% of the plants and experienced plant collapse a couple of weeks after planting should have noticed some kind of black irregular lesions on leaves as in Fig. 1 at the time of planting or during plug production. These lesions are different from common leaf spots caused by *Mycosphaerella fragariae* or phomopsis blight or scorch, caused by *Diplocarpon earlianum*, where the lesion is visible from the underside of the leaf. The Glo leaf spots are only visible from the upper surface of the leaf.

Although there are alternate wild sources of inoculum for the fruiting field, commonly *Colletotrichum* pathogens are introduced to the production system via infested plants. Hence, the best way to prevent disease problems is to make sure that the planting stock is not infected.

► Ask your plant supplier about any incidence of Glo symptoms in the nursery or plug production facility.

► Check the plants for any symptoms



Fig. 1. Glo causes lesions that are visible only on the upper surface of the leaf

as in Fig. 1 on the leaves before planting. In case of any confusion, send to the Plant Disease & Insect Clinic at NCSU for confirmation.

► If there is no other option than using plants with known minor infestation, fungicide dip the fresh-dug plants with Switch @ 5-8 oz/100 gal water or dip plants in Abound @ 5-8 fl. oz/100 gal water. Dip plants for 2-5 minutes and plant as soon as possible after dipping. Follow all label directions carefully. If possible, minimize irrigation from overhead sprinklers. Our research results indicated that significant reduction of plant mortality and increase in yield can be obtained by dipping infested plants in Switch before planting.

► Make sure soil salt concentration is in the acceptable range. Last season (2007-2008) many growers suffered extensive plant mortality due to high salt concentrations. The foliar symptoms (Fig. 2) were very similar to Glo crown rot symptom except crowns were clean.



Fig. 2. Plant mortality due to abiotic causes (high soil salt contents)

Assessment of soil salt concentration showed 40 ds/m which was 20 times higher compared to > 2 ds/m for normal salt contents. If high salt concentration occurs, turn on the drip to wash down salt and reassess whether it is has returned to a normal range.

Similar plant mortality symptoms were also observed in the field last year due to improper planting depth. For fresh-dug plants it is important to make sure that the whole root system at the junction with the crown is covered by soil as shown in Fig. 3.

Although we did not see crown rot caused by *Phytophthora cactorum* at a higher frequency last year, this

Be sure to catch the **Disease & Pest sessions** at the Expo on November 7 for more information and recommendations on Glo.



might dominate in some fields, putting proper diagnosis in the forefront of deciding management options. By following the flow diagram in Fig. 4, growers, with the help of extension agents, may be able to perform a rapid diagnosis of the plant collapse and take the right corrective measure before disease spreads in the field.

If anthracnose crown rot is detected, random collection of leaf samples from the whole field followed by a paraquat dip protocol (done in the lab) should be able to indicate how widespread the inoculum is in the field. Fall applications of captan + a QoI fungicide will be required if infestation is present in the whole field; spot application is worthwhile when infestation is localized. If *Phytophthora* is present, application of Ridomil Gold @ 1.0 pt/treated acre should be effective in keeping the situation under control. It is very unlikely to have crown rot caused by *C. acutatum* without seeing extensive petiole rot.

Some of the growers who had the crown rot problem last year may have to use the same piece of land for another strawberry crop, due to the unavailability of other land for planting. This raises the obvious concern whether the next crop can be affected by the over-summering inocula of the previous crop. No specific research for NC was conducted in this regard. However, results from Florida indicated that *C. glo* in the plant debris buried in soil does not survive over summer in strawberry tissues. The time between the end of last season's strawberry crop and the planting of the next season (four to six months) should be

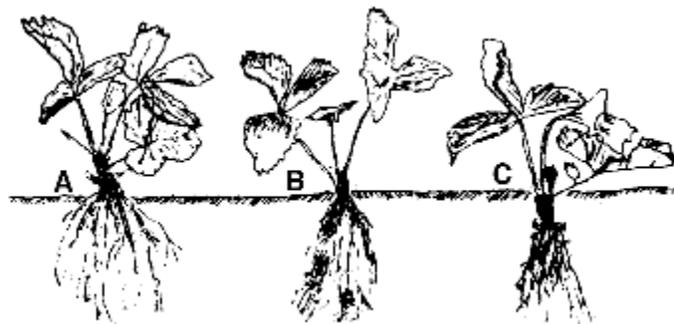


Fig. 3. Proper planting depth for fresh dug bare root plants. (A) too shallow (B) correct (C) too deep.

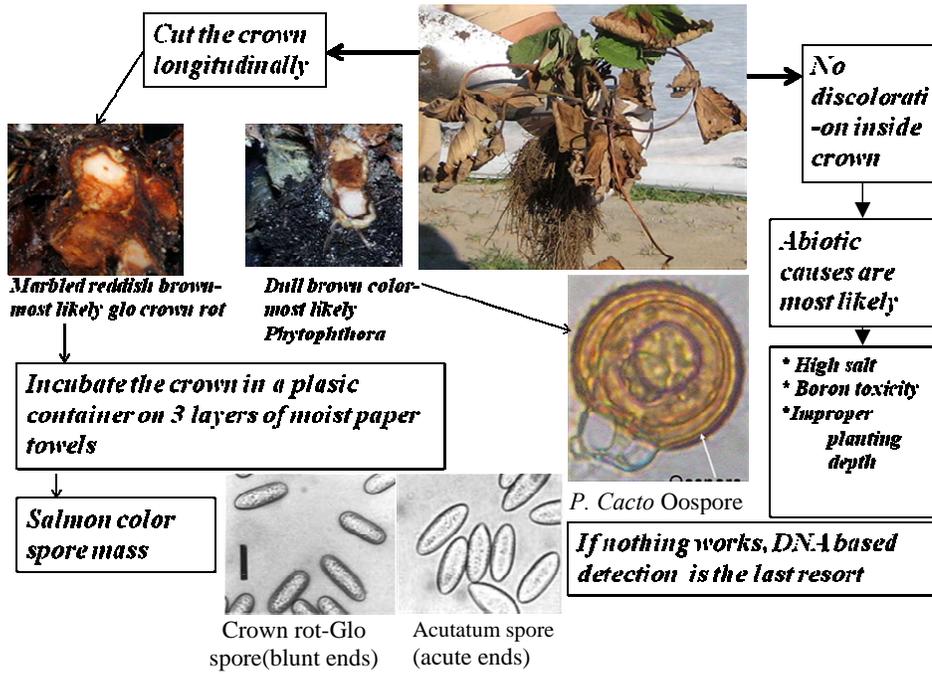


Fig. 4. Rapid diagnosis of the causal agent involved with early plant mortality

sufficient to get zero survival of inocula in plant debris. However, this result needs to be interpreted with caution as the decay of strawberry crowns in soil can be affected by soil properties, soil moisture content, soil temperature, and microbial dynamics. Soil moisture close to 22% or field

capacity was found to support faster decay of tissue and inversely correlated with survival of inoculum. Plants in the crown rot-affected fields need to be killed and incorporated into the soil as soon as harvest is done. Pre-planting fumigation also needs to be done with extra care to make sure

all the beds receive required amount of fumigants. Overall risk involved with carry-over inoculum is very low if the conditions mentioned above are fulfilled. ❖

The Plant Disease & Insect Clinic at NCSU accepts samples both from in-state and out-of-state. For information on fees and on how to submit samples, visit <http://www.cals.ncsu.edu/plantpath/extension/clinic/Submit/submit.htm>.

To see this article with color pictures, visit the the Members Only section of our website – or request email newsletter delivery.

September-October Growers Checklist



- Install a “blow out tube” on fumigation rig – this is an important secondary safety measure in case pressure builds up excessively in the nitrogen tank.
- Before the fumigation season, pressure-test your fumigation system using only nitrogen (a special connector can be obtained to do this).
- Make sure that the knives on fumigation rig are open and filters are clean.
- Allow a minimum of 2 weeks after fumigating with methyl bromide 50:50 before planting. Longer plant-back periods apply to most alternatives.
- For Midas 50:50 you will need to make some important changes – be sure you understand all equipment changes and safety regulations.
- Do your homework before applying any new type of compost – what is the nutrient content? Any heavy metals? What will be the N release pattern?
- Plant ryegrass (1 bu/acre) before you punch holes for plants.
- Set up deer fence even before the ryegrass germinates.
- Set up overhead irrigation system. Check pump, pipes, and nozzles.
- Check plants as they come in for insects and diseases. (See article on page 2.) Control if necessary.
- Plant in cooler regions in September; plant in October in the Piedmont and Coastal Plain. (See box on page 5)
- Irrigate fresh dug plants 9 am–5 pm for 7–12 days.
- Irrigate plugs five hours first day, three hours second day, and two hours third day. (More may be needed if weather is hot and sunny.)
- Check for dead plants and reset ASAP.
- Watch plants for pest injury, including deer.
- Fall irrigate as needed to keep soil from drying out.
- Hand weed emerging winter weeds.
- Make plans to attend the Southeast Strawberry Expo in November.

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Nominations Sought

The NC Strawberry Association seeks two kinds of nominations from its members this year:

Board of Directors Candidates

Three seats will be open. Please nominate someone you think would be good – feel free to nominate yourself if you are interested in serving.

Being a board member is an excellent way to learn more about – and give service to – the strawberry industry, and have influence on the Association’s activities. The Board is responsible for managing the directions of NCSA, deciding research grants, and setting the budget. It meets at least two times a year, usually in winter, and board members can be compensated for travel to these meetings. Members also serve on committees (e.g., Research, Expo, Marketing) and are asked to give input throughout the year via email or phone. Board members serve three-year terms and may serve two terms in succession. Any member may serve on the board: not just those from NC and not just growers (though the bylaws specify that only growers can become officers). Board members, as members’ leaders and representatives, play an important role.

Annual Awards Nominations

Each year, the Strawberry Association gives out a “Grower of the Year” award and one or more additional awards. These can go to a supplier to the industry, a researcher, extension agent, or other supporter of the industry. Last year, for example, we gave awards to grower Mitchell Wrenn and NCSU strawberry breeder Jim Ballington.

To make a nomination: contact the NCSA office or any member of the nominating committee (who are also the board members whose terms are winding up): John Hedgecock, Kenneth Rudd, and David Snelson. Addresses and phone numbers are on the back page. ❖



SOUTHEAST STRAWBERRY EXPO SCHEDULE

Here’s the schedule of sessions for the Strawberry Expo. A few topics may change and move around a bit, but the general structure will stay as shown. Contact the NCSA office if you have any specific questions. Expect to get the registration brochure soon!

| Thursday, November 6 | | | |
|------------------------------|--|---|--|
| 9:00-12:00 am | Southern Region Small Fruit Consortium Agent Training | Plasticulture for New Growers WORKSHOP | “Are You Making a Profit?” WORKSHOP |
| 11:30-12:30 | Registration for Expo Tour (Hilton Charlotte University Place) | | |
| 12:00-6:00 | Expo Tour • NC Research Campus, Kannapolis • Patterson Farm, production & marketing • Piedmont Research Station, Salisbury. Will include strawberry high tunnels, brambles, equipment adaptation for new fumigants. <i>Take the bus (recommended) or drive.</i> | | |
| 6:30 | BBQ Dinner at Ruritan Building, Mt Ulla (near Patterson Farm) | | |
| 8:00 pm -- | Hospitality Room at Hilton | | |
| 8:00-10:00 pm | Exhibitor setup | | |
| Friday, November 7 | | | |
| 6:30-7:30 am | Exhibitor setup | | |
| 7:30-9:00 | Registration. Trade show open all day. Coffee and Biscuits in exhibit area | | |
| 9:00-10:30 | GENERAL SESSION Grower spotlight: James Cooley, Strawberry Hill, USA, Chesnee, SC. High Tunnels in Europe, Andy Myers, Piedmont Research Station. | | |
| 10:30-11:00 | Break in Exhibit Area | | |
| 11:00-12:00 Breakouts | Exploring the New Fumigants | High Tunnels Roundtable | Are You Getting the Price You Deserve? |
| 12:00-1:30 | LUNCH & NCSA Annual Meeting Includes Board elections, NCSA activity/research reports, Assessment Referendum and Awards presentations. <i>Lunch sponsored by Dole Foods.</i> | | |
| 1:30 | Strawberry Jam/Preserves Contest (judging by panel of judges) | | |
| 1:35-2:40 Breakouts | Insect/Weed/Disease Session | Marketing Roundtable | Obtaining and Understanding Weather Information |
| 2:45 -3:50 Breakouts | Insect/Weed/Disease Session | Strawberry GAPs: The irrigation dilemma | Using the Web for Marketing & Promotion: Getting Started |
| 3:50-4:20 | Break in Exhibit Area – Strawberry Jam Taste-off (open to all) | | |
| 4:20-5:30 Breakouts | Fine-Tuning Your Fertilization | Plastic Mulch: Options for Recycling | Using the Web for Marketing & Promotion: Improving Your Site |
| 5:30-7:00 | Social Hour in Exhibit Area Live/Silent Auction. <i>Strawberry Jam Taste-off concludes.</i> | | |
| 7:00 – | Dinner on Your Own | | |
| 9:00 pm – | Hospitality Room open. | | |
| Saturday, November 8 | | | |
| 7:30-8:30 | Registration. Trade show open until noon. Coffee and Biscuits in exhibit area | | |
| 7:30-8:30 | Young grower sponsored breakfast | | |
| 8:30-9:40 Breakouts | Special Issues for Young Growers | The Growing Challenge: Farm Labor 2009 and Beyond | Strawberry Varieties: What We Have, What We Want |
| 9:40-10:10 | Break | | |
| 10:10-11:20 Breakouts | Farm Safety: Healthful Practices, Legal Requirements | Plant Supply Forum | Adding Value with Preserves, Jams, and Other Products |
| 11:20-12:00 | GENERAL SESSION: Grower spotlight: Shannon Mangnuson, Chesterfield Berry Farm, Moseley, VA. Going into Next Season: Wrap-up Panel Discussion. | | |
| afternoon | Tour of Lowes Motor Speedway and Hendricks Motor Sports (tentative). Midas Training & Certification. <i>Lunch for participants sponsored by Arysta LifeScience.</i> | | |

Recommended Planting Dates for Chandler by Region

These dates are for fresh dug plants. Plugs may be planted 5-7 days later.

WNC high elevation: 2nd-3rd week of September

WNC lower elevation and foothills: 3rd week of September

Upper Piedmont and Tidewater: 4th week of September

Piedmont, and transition to Coastal Plain (like at Clayton): 1st week of October

Sandhills: 1st week of October (The last week of Sept. is also fine for “colder locations,” especially for fresh dugs)

Lower Coastal Plain: 2nd week of October or 3rd week for warmer sites

Most southeastern counties, e.g. Brunswick: as late as the fourth week of October

NCSU Hires New Strawberry Breeder

Dr. Jeremy Pattison, who has been working in small fruits extension and research for Virginia Tech since 2004, has recently been hired by NC State University as a full-time strawberry breeder. Congratulations, Jeremy, and welcome to North Carolina!

Jeremy is well-known to many of us already. He has attended several Strawberry Expos, presenting on high tunnels in 2007. We've published several articles from him this year, an alert on the Glo in January after he tracked this disease at several Virginia farms, and a report on his extensive variety trials in June.

Dr. Pattison has a B.S. in Biology from East Stroudsburg University (NY) and a PhD from Cornell University in Pomology, with minors in Plant Pathology and Plant Breeding. His post-doctorate work at Cornell involved germplasm research he has continued to explore this area of research while in Virginia. In 2007 and 2008 he received funding from the North American Strawberry Growers Association and the Southern Region Small Fruits Consortium to work on several projects in strawberry

genetics and from the NC Strawberry Association to work on breeding strategies for resistance to Anthracnose crown rot.

Jeremy will be based at the new NC Research Campus in Kannapolis and will be utilizing both molecular and traditional breeding techniques. He will be working closely with current NCSU strawberry breeder Jim Ballington and eventually take over the full strawberry breeding program.

Says Jeremy, "This is truly an exciting time for the North Carolina strawberry industry and I am extremely honored to be joining the NCSU team. I am looking forward to working with the industry and will be traveling quite a bit this fall to meet many of the growers where I hope to get a clear picture of industry needs, desires and areas for future growth."

Jeremy will be relocating to the Charlotte/Kannapolis area with his wife, Heidi and four children, Conlyn (9), Logan (7), Liam (4) and Braedon (2). ❖

Strawberry Breeding at the Expo

Plan to meet Jeremy Pattison, NC's new strawberry breeder, at the Strawberry Expo. He will be on the farm tour, and a breakout session "Strawberry Varieties: Meet the Breeders" will be held on Saturday, November 8. Jeremy is eager to meet growers, talk about variety options, and hear what growers' priorities are for strawberry breeding. Jim Ballington will be there; and we've also invited Dr. Dilip R. Panthee, a new tomato breeder based at the Mountain Horticultural Crops Research Station who may work some in strawberries as well.



How Sweet It Is...

...and how flavorful and colorful and completely delicious. We're talking, of course, about your strawberry jam. If you make strawberry jam or preserves – whether for your own family use or to sell – plan to enter your products in the contest this year at the Expo Even if you aren't able to attend yourself, you can send an entry.



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Apply for NRCS Cost Share Programs Now

In late 2006, the NC office of the Natural Resources Conservation Service (NRCS) approved new programs specifically for strawberry growers. *We encourage NC growers to visit their local NRCS office as soon as possible to learn more about these programs and start the application process.* Applications are accepted all year, but there are "batching" deadlines. The deadline for the first "batch," for which most funds will likely be distributed, has not yet been set but is expected to be later this fall.

What are the programs?

The strawberry cost-shares are part of the Environmental Quality Incentive Program (EQIP). Each pays half the cost to the grower of the practice. The amounts below are those set in 2006; they are likely to be increased to reflect current costs.

- **Row Cover – Mulching for strawberry crop systems** will pay half of the cost of row covers for up to five acres. This program was conceived especially for situations where frost protection irrigation causes erosion concerns and for growers who do not have sufficient water to frost-

protect. Current cost share: \$700/acre.

- **IPM-Reduced-risk Alternative Fumigants to Methyl Bromide** is for trying alternatives such as Telone and Vapam (revision may now include Midas). Current cost share: \$50/acre.

- **Virtually Impermeable Film (VIF) Tarping** pays half the cost of this more expensive bedding plastic, which reduces gas flow of fumigants to the atmosphere so they can be applied at much lower rates. Growers can use the VIF either with their current methyl bromide/chloropicrin fumigation or with an MB alternative. Current cost share: \$90/acre.

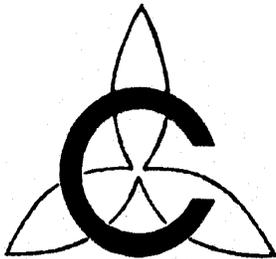
NRCS has other conservation practices that may help your farm. These include contour farming, cover cropping, field borders, filter strips, grassed waterways, heavy use area protection, and chemical

NCSA and the Center for Ag Partnerships would like to talk to growers who have applied to NRCS, who visited their local office but decided not to, OR who would like to apply this fall. Please contact the NCSA office.

How To Apply

You can apply at any time of the year – but the sooner the better. To start the process, simply go down to your local office and talk to the District Conservationist. To find the NRCS office in your county at: www.nc.nrcs.usda.gov/about/. Click "Find a service center" at the left of your screen to access the directory.

Some strawberry growers have already taken advantage of this program. Says John Hedgecock, in Kernersville, "It was really simple. I wanted row covers for frost protection so I wouldn't use so much water and so I wouldn't be irrigating after there was fruit on the plants." The Hedgecocks also participating in NRCS programs for field borders and strip cropping. ❖



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...and many, many items not listed here! Please call Coor Fam Supply.

Thank you for your business.

Fumigation Survey – All Growers Please Respond!

STATE YOUR FARM IS IN: _____

1. How many acres of strawberries are you planting in fall 2008? _____

2. What fumigant(s) are you using? Please indicate acreage for each:

_____ Methyl bromide/chloropicrin (50/50) _____ Telone C-35
_____ Midas _____ No fumigation
_____ Other: _____ Don't know

3. Will you be using VIF plastic in your 2008 planting? _____

4. Do you: _____ Do your own fumigation?
_____ Hire custom a custom applicator?
_____ Trade with another grower for fumigation?

5. If you do your own fumigation:

How many workers do you have in the field during fumigation? _____

Do you have experience using respirators in fumigation? Yes No

Proposed regulations include buffer requirements:

- Buffer zones in the new regulations vary by chemical, application rates, size of acreage, and type of tarping. For example, using standard plastic and application rates for MB/Chloropicrin, buffers extend approximately 200 ft. around the treated area for 10 acres, 100 ft. for 5 acres, and 25 ft. for one acre.

- No fumigant applications will be permitted within a quarter mile of schools, licensed day cares, nursing homes, hospitals, etc.

- Only authorized handlers who are properly equipped may be in the buffer zones for a minimum of 48 hours after fumigation is finished.

- Occupied buildings may not be in the buffer unless occupants voluntarily vacate the buffer zone during the entire period.

6. How will buffers like this affect your strawberry operation?

Please send your response right away! Fax: 866-511-6660 Phone: 919-542-4037

Email: info@ncstrawberry.com Mail: 138 Rock Rest Rd., Pittsboro, NC 27312

Eat More Strawberries....

Agricultural Research Service (ARS) scientists have assessed the human body's capacity for absorbing certain antioxidant compounds in strawberries, and have found that the absorption of one key beneficial plant chemical was not "maxed out" as volunteers ate more of this popular fruit. Researchers are striving to learn more about antioxidants' ability to be absorbed and utilized within the human body. The study was conducted at the ARS Beltsville Human Nutrition Research Center (BH-NRC) in Beltsville, MD.

Strawberries are the fifth most consumed fresh fruit in the United States, and consumption more than doubled in the past decade. Strawberry's antioxidants come in the form of both vitamins and newly defined plant chemicals. Berries are particularly well endowed with compounds called anthocyanins – the source of the berries' blue, purple and red pigments.

The study showed that the human body is capable of assimilating more anthocyanin pigments as intakes increase. The results will help nutrition scientists evaluate the healthful properties of individual anthocyanins and aid plant breeders in developing varieties with optimal anthocyanin content.



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We are happy to assist you with any questions regarding your plant needs,
suggested planting dates, or other materials you might need.

Contact: Jim Goodson, Donna Goodson, or Mitchell Wrenn

Phone: 501-335-8185 Fax: 501-335-7056 Email: goodson01@alltel.net

Owner: Carl Ghesquiere

CALENDAR

November 6-8 – Southeast Strawberry Expo, Hilton University Place, Charlotte, NC. Plan to be there! See page one.

December 2-3 – Southeast Vegetable & Fruit Expo, Myrtle Beach, SC. For info, call 919-334-0099 or visit www.ncvga.com.

December 8-10 – North American Raspberry & Blackberry Conference, in Grand Rapids, MI, as part of the Great Lakes Expo. For more information, email info@raspberrylblackberry.com.

January 8 - 11, 2009 – Southeast Regional Fruit & Vegetable Conference, Savannah, Georgia. For more information, visit www.gfvga.org, email info@gfvga.org or call 706) 845-8200.

Please send Calendar Items or Buy & Sell notices by the 25th of the previous month.

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North Carolina Strawberry Association Membership and Order Form

Name _____

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Home Phone _____

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Please send newsletters by regular mail by email (pdf)

Membership: New Renewal

In-state \$45 Out-of-state \$60

Extension/research/NCDA \$15

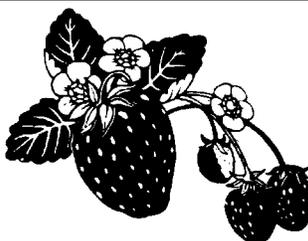
Publications: *price includes postage*

Strawberry Plasticulture Notebook \$31

2007 Strawberry Expo Proceeding \$10

To order *Strawberry Time* kids' booklets contact NCSA.

*Please make your check out to NCSA and send to NCSA, 1138
Rock Rest Rd. Pittsboro, NC 27312. Members will receive The
Strawberry Grower newsletter monthly.*



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910-675-2394 (office) 910-540-6416 (Sam's mobile)

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The North Carolina Strawberry Association

Debby Wechsler, Executive Secretary

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e-mail: info@ncstrawberry.com

website: www.ncstrawberry.com

This newsletter is a benefit of membership in the association. For more information about membership or the association, or to submit an article to the newsletter, contact Debby Wechsler, Executive Secretary, at the above address.

Newsletter Schedule: *The Strawberry Grower* is published monthly.

The deadline for newsletter material is the 24th of the preceding month – call first if you want to send in something after that date.

Advertising rates:

\$25/issue for a business-card size ad

\$50 for 1/4 page

\$80 for 1/2 page

\$135 for full page.

Word ads: \$.50/word

All ads should be camera-ready; additional charges may apply for typesetting and layout. See deadlines above. For more information, please contact Debby Wechsler, phone 919-542-4037 or e-mail: info@ncstrawberry.com

DISCLAIMER: INFORMATION IN THIS NEWSLETTER IS BELIEVED TO BE RELIABLE BUT ITS ACCURACY, COMPLETENESS, AND INTERPRETATION ARE NOT GUARANTEED AND SHOULD NOT BE RELIED ON AS A SOLE SOURCE OF INFORMATION.

North Carolina Strawberry Association, Inc.

1138 Rock Rest Rd.

Pittsboro, NC 27312

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SEPTEMBER, 2008