

Project Title:

***Peach Integrated Pest Management
School***

Project Leaders:

***Tony Watson
County Extension Agent
P. O. Box 509
Edgefield, SC 29824***

Email – TWATSON@CLEMSON.EDU

***Greg Henderson
County Extension Agent
P. O. Box 509
Edgefield, SC 29824***

Email – GHNDRSN@CLEMSON.EDU

*Cooperator from North Carolina, South Carolina, Georgia, and all are listed in
the program agenda.*

Problem addressed: In recent years the Peach Industry in South Carolina has seen dramatic changes in production practices. Changes have been caused by such occurrences as loss of most organo-phosphate insecticides, disease control failures and excessive orchard growth, in most orchards in South Carolina. In addition, many producers do not fully understand the interrelated factors of peach production, as how pest biology relates to pest management. To address this problem a comprehensive Integrated Pest Management School for peach producers was held from February 10-12, 2004. During this school, producers were taught the biology of important pest occurring on peach. This was a very comprehensive program that included sessions of plant pathology, entomology, weed science, horticulture, nutrition management and economics.

Results: Each presenter was asked to submit several questions which related to the important points of their presentation. From these questions a pre-test was designed to evaluate the knowledge of the participants. Following completion of the school, participants were given the same test to evaluate their knowledge gained as the result of the school. There were 19 questions on the tests with several having multiple parts. In addition a program evaluation sheet was given to each participant. The evaluation questions asked were as follows:

- 1) Was the information presented in an understandable format?
- 2) Did the program meet your needs as a producer?
- 3) Did you gain any knowledge by participating in this program?
- 4) Will information or knowledge gained by attending his program help you save money in your operation?

Participants were asked to score their responses to each question on a scale from 1 to 5 with 1 being the least favorable and 5 being the most favorable.

In regards to question 1 which related to the information being presented in an understandable format, participants rated this a 4.76 out of 5 with a range of 2 to 5.

Question 2, relating to the program meeting the needs of the producers was rated a 4.77 with a range of 2-5.

Question 3 asked if the participant gained any knowledge. This question received the highest response level of all questions. Participants related this a 4.89, again with a range of 2 to 5.

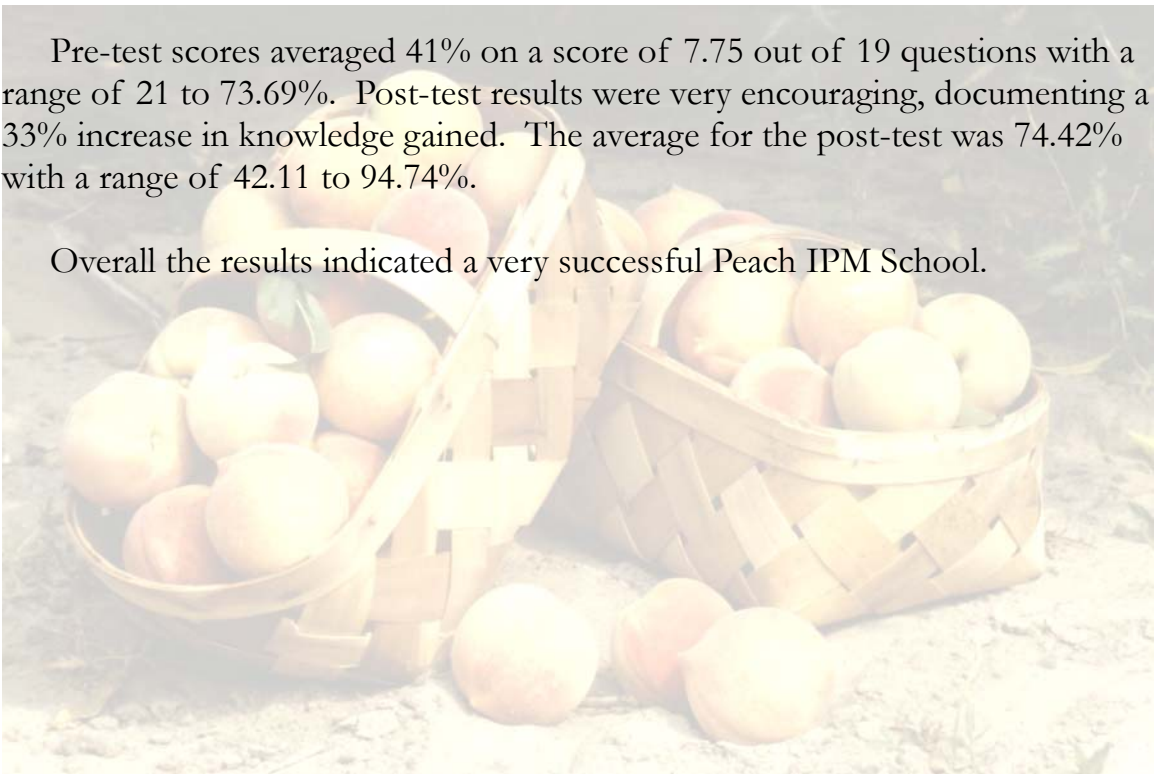
Question 4, which related to the program helping producers save money received a rating of 4.4 with a range from 2-5.

The response to these questions would indicate participants were very satisfied with the program and increased their knowledge of Peach-Integrated Pest Management.

The pre-post test which was a direct measurement of the important points taught during the program also indicated knowledge increased as the result of participating in the school.

Pre-test scores averaged 41% on a score of 7.75 out of 19 questions with a range of 21 to 73.69%. Post-test results were very encouraging, documenting a 33% increase in knowledge gained. The average for the post-test was 74.42% with a range of 42.11 to 94.74%.

Overall the results indicated a very successful Peach IPM School.



Integrated Peach Pest Management School

February 10-12, 2004

Tuesday February 10, 2004

12:30 Registration



1:00 Welcome and Pre-test
Mr. Greg Henderson and Mr. Tony Watson

Remarks from the South Carolina Peach Council
Mr. Joe Watson

1:15 Update on EPA's Strategic Agricultural Initiative Grant Program
Ms. Lora Lee Schroeder

1:30 Principles of Pest Management
Mr. Tony Watson

2:00 Peach Nutrition
Dr. Butch Feree

3:00 Break

3:15 Peach Varieties-- Disease susceptibility,
tolerance and future research.
Dr. Desmond Layne

Entomology Section

Dr. Dan Horton

4:00 Identification and Biology of Insect Pests

4:30 Biology and Control of Insect Pests

5:30 Insecticides and control or factors affecting
control decisions

6:00 Adjourn

Wednesday February 11, 2004

**Morning Moderator --
Greg Henderson**

Weed Science

Mr. Wayne Mitchem

- 8:00 Weeds and Weed Identification
8:30 Biology, lifecycles and Control
9:30 Herbicides - classes, modes of action and
application timing.
10:00 Break

Plant Pathology Section

- 10:30 Disease Specimen Identification
Dr. Phil Brannen
11:00 Brown Rot, Scab, Gumosis and Nematodes
Dr. Phil Brannen
12:00 LUNCH

**Afternoon Moderator - -
Dr. Desmond Layne**

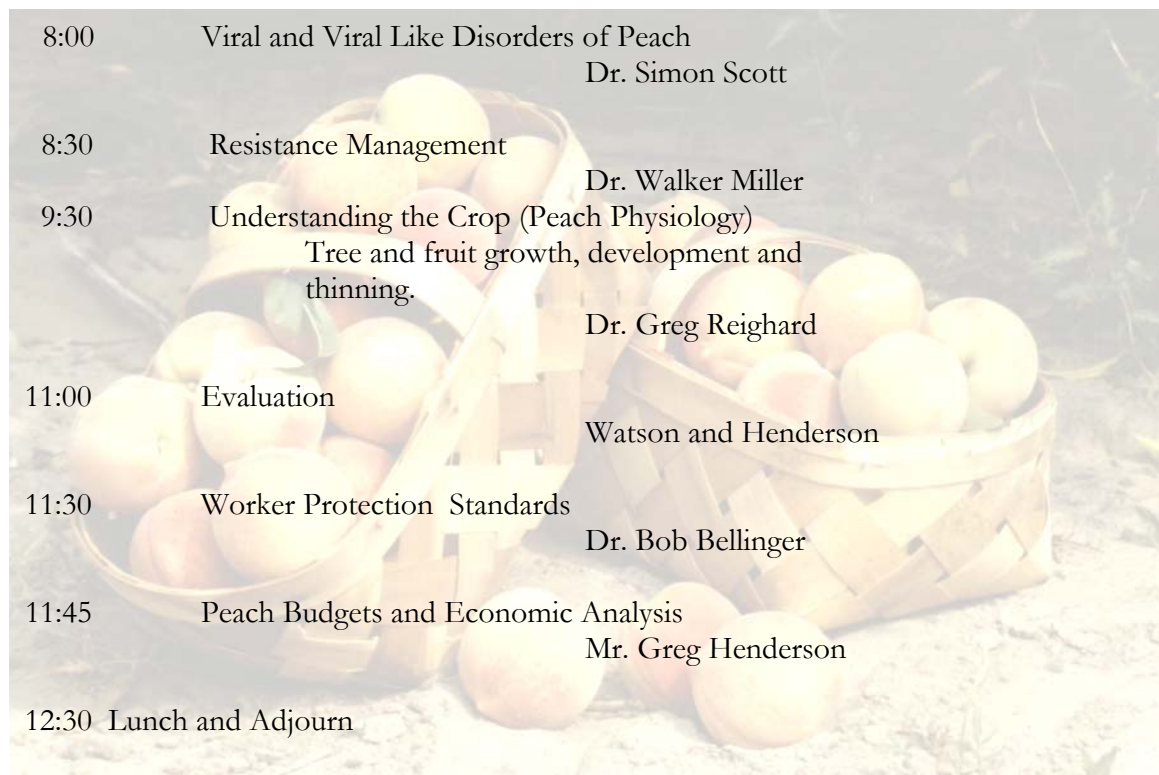
- 1:00 Bacterial Pathogens of Peach
Dr. Dave Ritchie
2:00 Root Diseases of Peach
Dr. Guido Schnabel
2:30 Exotic Diseases Peach Leaf Curl, Peach Rust
Powdery Mildew
Dr. Eldon Zehr
3:00 Break
3:30 Fungicides and Modes of Action
Dr. Guido Schnabel
4:00 Sprayer Calibration
Mr. Roger Galloway
4:30 Possible New Peach Thinner
Mr. Bobby Boozer

6:00 *Adjourn - Reception, light hor d'oeuvres, sponsored by South Carolina Peach Council.*

Thursday February 12, 2004

Moderator - Mr. David Parker

Plant Pathology (cont'd)



| | | |
|-------|---|----------------------|
| 8:00 | Viral and Viral Like Disorders of Peach | Dr. Simon Scott |
| 8:30 | Resistance Management | Dr. Walker Miller |
| 9:30 | Understanding the Crop (Peach Physiology) Tree and fruit growth, development and thinning. | Dr. Greg Reighard |
| 11:00 | Evaluation | Watson and Henderson |
| 11:30 | Worker Protection Standards | Dr. Bob Bellinger |
| 11:45 | Peach Budgets and Economic Analysis | Mr. Greg Henderson |
| 12:30 | Lunch and Adjourn | |

2:00 Optional – Pruning Discussion at Musser Farm
Time, weather and interest permitting this will be an informal demonstration and discussion on the reasons and techniques of pruning.
Specialists, Agents