

The Landing Rate Count

www.scmca.net

Newsletter of the South Carolina Mosquito Control Association

October 2018–Vol 44 • Issue 3

Editor: Trey Reed

The President's Message

Robert Cartner

Fall is finally here, but don't let the name fool you. Here in Beaufort, as in other parts of South Carolina, heat and humidity are doing their part to keep the mosquitoes active. This means that we need to remain vigilant against the threat of mosquito-borne disease. Counties in the upstate of SC have seen quite a few cases of West Nile virus (WNV) in bird populations, but overall 2018 has been mild in terms of reported diseases. Updates on exact disease numbers can be found at gis.dhec.sc.gov/mosquitoborne/.



**Robert Cartner -
2018 SCMCA President**

Much of SC was affected by Hurricane Florence in September, but none were hit as hard as the North Carolina coast and the SC Pee Dee region. Both of which are in the beginning stages of recovery. One factor about flooding that many in the public seem to forget, is that the largest and most voracious mosquito species are produced by floodwaters. The good news is that these species rarely transmit disease, but the rate that these species emerge can make cleanup and recovery and nightmare. Those who are familiar with the bite of one *Psorophora ciliata* will know that being outside among thousands of them will be an impossibility. Relief cannot come soon enough for those affected by the flooding.

The 2018 SCMCA Annual Meeting is very near and I hope to see everyone in Greenville, November 7-9, 2018. We have some great presentations planned as always and a beautiful venue to view them in. If you haven't registered already, make sure you do soon. We'll be having a pre-session course on using and maintaining ULV equipment, so if you're new or need a refresher, make sure to register, but seating is limited, so sign up soon.

I have had such a wonderful experience this year serving as President of SCMCA and I have enjoyed working with everyone on the SCMCA Board of Directors and everyone else in the Association. I have learned so much this year from all of you and I hope that you continue to learn from and enjoy everything that the South Carolina Mosquito Control Association has to offer. As a member of the SCMCA, your participation and input is vital to the continued success of the program.

Enjoy the rest of your year and I'll see you in Greenville!

Robert

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Save The Date

SCMCA 46th Annual Meeting

Greenville, SC
November 7-9, 2018

2018 SCMCA Sustaining Members

Thank you for your time and contributions!

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2018 SCMCA Sustaining Members, continued

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SCMCA Regions & Delegates

Upper Region: Travis Shealy

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Middle Region: Kat Sandel

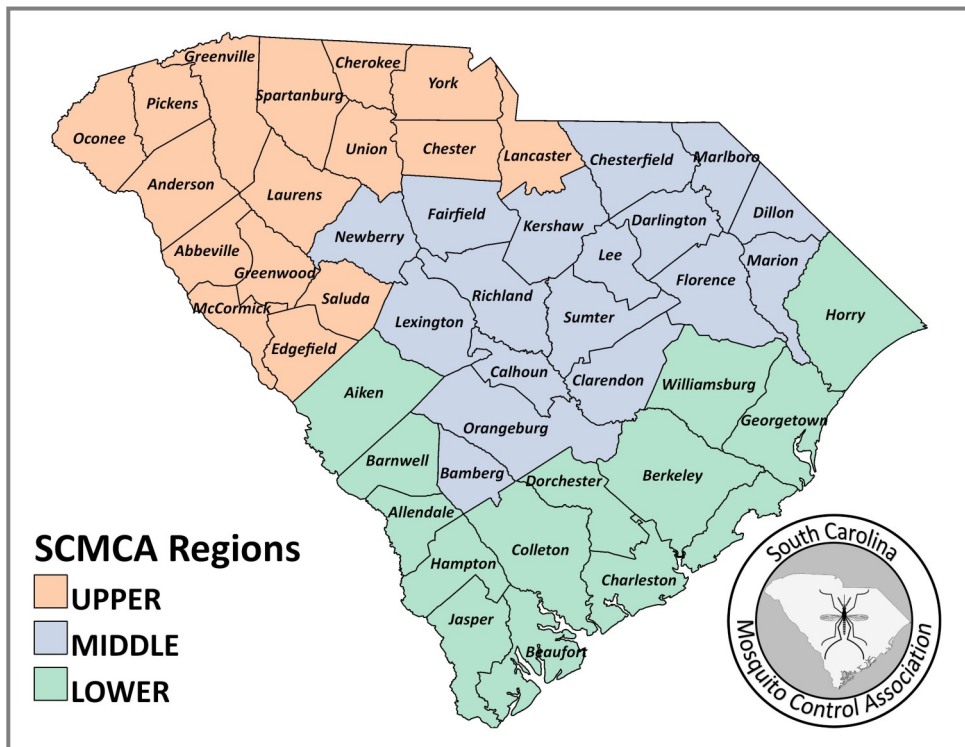
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Lower Region: Raymond Clark

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Mosquito Control Program Updates

Upper Region

City of Greenwood

Billy Allen with the City of Greenwood stated that there has been no increase in the number of mosquitoes this summer. Therefore, the number of complaints had not increased this summer. He did mention that there was a confirmed case of West Nile, so they have been busier this summer. Mr. Allen has also implemented a program, that when a call comes in, the City of Greenwood likes to respond with a visit to the property to not only look for potential breeding habitats, but to also help educate the property owner on ways to reduce mosquito populations around the property. Mr. Allen also mentioned how they like to give homeowners an educational refrigerator magnet that has mosquito tips and a number to call for mosquito complaints. The City of Greenwood has a new truck mounted sprayer that uses GPS to track where they spray, and they also have a new backpack sprayer. Mr. Allen stated that they acquired BG Sentinel II traps through a grant and hope to start trapping in the next few weeks. Mr. Allen commented that one person from their organization will be attending SCMCA Annual Meeting in Greenville later this year.

City of Fountain Inn

Lori Cooper with the City of Fountain Inn stated there has been an increase in the number of mosquitoes in certain areas, as well as an increase in rain and standing water this summer. Due to this increase of rain and standing water, they have added information to their website about removing standing water. Ms. Cooper said that they will continue to spray in October with Biomist.

Mosquito Control Program Updates

Upper Region continued

City of Edgefield

There are no new reports or developments per David Coleman with the City of Edgefield. Mr. Coleman stated that there has been no increase in mosquito activity or complaints for this summer. He said that the City of Edgefield will stop spraying for mosquitoes in October. During the winter, they plan to start prepping for the 2019 season by testing and calibrating their spray machine. Mr. Coleman also mentioned that he hopes to attend the SCMCA Annual Meeting in November this year.

City of Gaffney

Barry Bundy with the City of Gaffney has reported there has not been an increase in mosquitoes or complaints this summer. The City of Gaffney has a new truck mount sprayer, back pack sprayer, and employee in Mosquito Control. Mr. Bundy mentioned they have had a problem with standing water at vacant houses with pools, but they hope to be able to drain these pools soon. Mr. Bundy also said he will be attending the SCMCA Annual Meeting this year.

Middle Region

City of Columbia, SC

We've done some larvaciding and spraying (with our very new equipment, thanks DHEC). Stacy Harris and Antione Williams have taken the lead in larvaciding and spraying, while Rick Blackmon has taken the lead on news interviews and press releases. We have been encouraging citizens to report dead birds and have turned in several to DHEC in the last few weeks.



Mosquito Control Program Updates

Middle Region Continued



Richland County, SC

This has not been a typical summer for us. At one point we thought it seemed quieter than usual, however, when someone commented on that - we had to tell them don't jinx us! The last time we felt that way was 2015, and we had spoken too soon! That is sort of how we're viewing things now as Hurricane Florence works its way towards us... things are about to get hot and heavy. The low mosquito numbers and light rainfall are over.

We had our annual Pesticide, Herbicide, Fertilizer inspection last month – everything was fine as usual. We are still in the process of hiring someone for filling Rachel's vacancy. The interviews were completed weeks ago, but it just West Nile activity in the county, but nothing like we had last year.

At this point, we're hoping to pass through the storm without issue, and looking forward to colder temperatures and hope to be at the annual meeting in Greenville. Hope to see you there!

Mosquito Control Program Updates

Lower Region

Beaufort County Mosquito Control Program

Mosquito season in Beaufort County started relatively late this year, as I'm sure it did in most parts of the state. May and June showed a 40% decrease in complaints compared to 2017. The season ramped up in July and August with an average complaint increase of 180% over 2017. September has been slow so far compared to 2016 and 2017 when we had an average of 415 complaints. Over 90% of which were received in the last half of the month following Hurricanes Matthew (2016) and Irma (2017). Beaufort County thankfully had no issues stemming from Hurricane Florence.

Aerial adulticiding and larviciding missions got off to a slow start due to aircraft malfunctions, but are now operational and continue to be a crucial asset in controlling mosquitoes around the county. Mosquito control personnel are currently retreating problematic catch basins to ensure our West Nile virus (WNV) incidence remains low.

Mosquito collections on average have been similar to previous years with no unusual increases or decreases. Beaufort County uses a variety of mosquito traps for both population and disease surveillance. There have been no reported, locally acquired mosquito-borne disease cases in Beaufort County so far in 2018 and no mosquitoes, birds, or horses have tested positive for any mosquito-borne disease.

So far in 2018, BCMC has two new employees, a field technician to fill a new position, and a new manager/biologist to replace a legend who retired after more than 30 years. There are no other program changes to report at this time.



Pictures From the 2018 SCMCA Summer Workshop



Pictures From the 2018 SCMCA Summer Workshop



Pictures From the 2018 SCMCA Summer Workshop



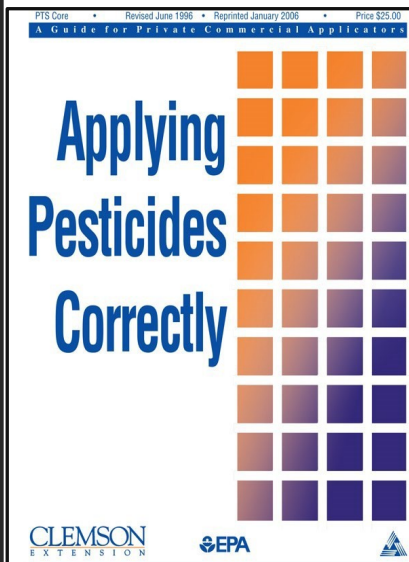
Pictures From the 2018 SCMCA Summer Workshop



Obtaining a Non-Commercial License for Mosquito Control

Chris Evans, MS, PhD

In order to obtain a Category 8 Public Health Pest Control License, you must obtain training materials prior to taking the exam. No classroom instruction is provided.



The two manuals needed are: (1) Core Manual – Applying Pesticides Correctly (PTS CORE), \$25; and (2) Category 8 – Public Health Pest Control (PTS8-SR18), \$15. Order the manuals online at <https://clemson.edu/dpr>, click “Exam Information” on the right, then under “Exam Information for SC Applicator’s License” click, “Order Exam Study Materials Online.” These manuals can also be ordered by phone from the Clemson University Bulletin Room:



(864) 656-3261 or (888) 772-2665. The exam fee for the Core + Category 8 is \$100. Each additional category is \$50. Before taking the exam, you must pre-register with the Clemson University Department of Pesticide Regulation (864-646-2150). Specifically, you should contact Holly Lizotte (Phone: 864-646-2164; E-mail: hlizott@clemson.edu) to pre-register. You must provide your name, address, phone number, social security number, and the name of the exam (Category 8). You will be given an

Identification Number. The exam location, date, and time will be set up during the pre-registration process. Directions to the testing center will be provided.

The exam is taken on a computer, and it is offered at testing centers around the state. The exam will cover the core principles of pesticide labels, environmental factors, pest and pesticide knowledge, pesticide laws, pesticide equipment and application techniques, and safe pesticide use, as well as knowledge specific to Public Health Pest Control. The results are known immediately upon completion of the exam.



To County Vector Control Departments in the South Carolina Midlands:

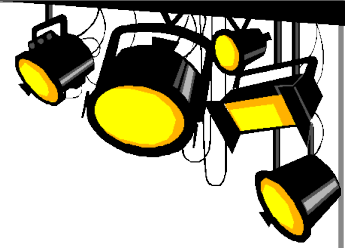
Mid-State Beekeepers Association would like to make you aware of an asset at your disposal. Our organization has grown a great deal over the past several years and we have developed a large email database of area beekeepers. While not all inclusive, we have the ability to quickly send an email alert to our 285 dues paying members and to over 550 local individuals that subscribe to our monthly newsletter in Lexington, Richland, Calhoun and surrounding counties. Of course we encourage all of our active members to register their hives with their local Vector Control departments as a first line of contact should contact be needed.

However if, for any reason, you have a need to send an alert out to local beekeepers we would welcome facilitating that action for you.

Thank You,
scmidstatebees@scmidstatebeekeeper.org

Santee Cooper's Secret Agent

A Blog By John's Son Aaron



I will never forget the day I discovered my father's true profession.

Growing up as a child who loved the game of baseball, my father and I would often play catch in the front yard. Sometimes he would be the catcher as I practiced pitching and sometimes he would roll me ground balls and throw me pop flies.

One day during the middle of one of our workouts, he randomly stopped what he was doing and looked down one of his legs. He then gently yet promptly raised his glove hand just before slamming it hard against his leg. "Got 'em!" he yelled as he peeled the now flattened mosquito carcass from his 1995 Rawlings Paul O'Neill Edition glove.



at

"Ahh, *Aedes Albopictus*," he said, examining the pest inches away from his eyes. He then looked at me and said, "This here is one of the most common mosquitos in the area and they primarily bite people around the ankle and calf area."

The information was interesting and would stick with me for years to come, but what I witnessed shortly after playing catch on that hot summer day would be embedded in my head for a lifetime.

I had just finished washing up for supper when I looked outside of a window and noticed white smoke forming outside where we had just played catch. The smoke was so thick and so dense it looked like my house had risen hundreds of feet and wound up lost in the midst of a cumulonimbus cloud.

I rushed outside just as the sound of a motor abruptly stopped. The milk-white smoke began to settle and a silhouette appeared from a distance. The silhouette slowly revealed itself to be my father who was holding a flame-throwing, ghost busting, life-threatening, alien-slaying, gun-like object with a flame still lit at the end. "Adios *Aedes Albopictus*," he said in an accomplished tone. My eyes, the size of half dollars, stared at him and my heart filled with a rare mixture of amazement and utter terror as the epiphany set in. My father was a trained mosquito assassin!

I recently had the opportunity to shadow my father, John Grant, and the Vector Management crew (a.k.a. the mosquito assassins) at Santee Cooper. They make sure that mosquito populations around the Santee Cooper lakes are kept in check. To report a mosquito problem in Santee Cooper's management area, click [here](#). If you'd like to learn more about how you can help control mosquitos, visit S. C. DHEC's [website](#).



Web Resources

Resource	Website
American Mosquito Control Association	http://www.mosquito.org/
CDC Division of Vector-Borne Diseases	http://www.cdc.gov/ncezid/dvbd
CDC Zika Virus Information	http://www.cdc.gov/zika/
Clemson University CEU Search (See <i>your</i> information)	http://regfocus.clemson.edu/dpr/ncommercial.htm
Clemson University Cooperative Extension Beekeeping	http://www.clemson.edu/extension/beekeepers/
Clemson University Department of Pesticide Regulation	http://regfocus.clemson.edu/dpr/
EPA Insect Repellents: Use and Effectiveness	http://cfpub.epa.gov/oppref/insect/
Florida Medical Entomology Laboratory (+ID Guide)	http://fmel.ifas.ufl.edu/
Florida Mosquito Control Association	http://www.floridamosquito.org/Home/
Mid-Atlantic Mosquito Control Association	http://www.mamca.org/
NC Mosquito and Vector Control Association	http://www.ncmvca.org/
SC DHEC Mosquitoes in South Carolina	http://www.scdhec.gov/mosquitoes
SC DHEC Reporting Dead Birds in South Carolina	http://www.scdhec.gov/birdtesting
SC DHEC Zika Virus Information	http://www.scdhec.gov/zika
Society for Vector Ecology	http://www.sove.org/
South Carolina Aquatic Plant Management Society	http://www.scapms.org/
SC Bee Keeper Association (Local assoc. links)	http://www.scstatebeekeepers.org/
SC Mosquito Control Association	http://www.scmca.net/
USGS (Arbovirus Disease Maps)	http://diseasemaps.usgs.gov/mapviewer/

2018 Calendar of Events

Date	Meeting/Event	Venue	Location
Nov 7-9, 2018	South Carolina Mosquito Control Association 46 th Annual Meeting	Hilton Greenville Room Reservations	Greenville, SC
February 25, 2019	AMCA 85th Annual Meeting	AMCA Meeting	Orlando, FL
Continuous	AMCA E-Modules	E-Modules	

The AMCA Training Portal has E-Modules that all individuals within the mosquito and vector control industry can benefit from! Trainings are free for both members and non-members!

<http://www.mosquito.org/page/EModules>

Save the Date and Join Us...
For the 46th SCMCA Annual Meeting
November 7-9, 2018



This year's meeting will be held at the Hilton Greenville.

45 West Orchard Park

Greenville, SC 29615

The Association's block of rooms will be held until October 24th, so please make your reservations now!

Click Here: [Block Room Reservation Link](#)

Hope to see you all there!!

South Carolina Mosquito Control Association

Annual Meeting Registration

Hilton Greenville

Greenville, SC 29615

November 7 - November 9, 2018

REGISTRATION DUE BY: October 26, 2018

NAME: _____
ORGANIZATION: _____
ADDRESS: _____
CITY/STATE/ZIP: _____
PHONE: _____
EMAIL ADDRESS: _____

(Email address is important—SCMCA newsletters are sent via email along with important notifications and updates. Thanks!)



*Registration fee: \$110.00 _____
(Includes Full Registration and Annual Dues)

Late registration fee: \$120.00 _____
(Includes Full Registration and Annual Dues)

Pre-session - ULV Maintenance Free _____
(Only 16 spots available - please mark form)

Sustaining Membership Registration: \$260.00 _____
(Includes Full Registration and Sustaining Membership Dues)

Sustaining Membership Dues: \$150.00 _____
(Sustaining Membership ONLY)

**Early Bird Dinner 11/07/18 On your own _____

Additional Active Membership Dues: \$10.00 _____
(Note: One Active Membership is Included with Registration)

Additional Banquet Tickets \$55.00 _____

Total Due: _____

*Registration fee includes one active membership, one banquet ticket for the Thursday evening meal and one breakfast ticket for Friday.

The Early Bird Dinner will be at a local restaurant near the Hilton called the "Local Cue". It will be pay your own way and we estimate a cost of \$15.00 to \$20.00. **If you plan to attend, please remember to mark the form for a headcount.

FOR OFFICE USE ONLY

Amount received with pre-registration form \$ _____

☐ Check # _____ ☐ Cash~~Balance due at meeting:\$ _____

Final amount received: \$ _____

☐ Check # _____ ☐ Cash



REMEMBER: You are responsible for your own lodging. Hilton Greenville: 45 West Orchard Park Drive, Greenville, SC 29615. Go to our website at www.scmca.net and look under events. Click on "SCMCA Room Block Reservation" and you will be rerouted to their site to receive the group rate. Approximate room rate: \$112.00. For information on the venue, visit their website at www3.hilton.com/en/hotels/south-carolina/hilton-greenville-GSPSCHF/index.html.

Return this form to the Secretary/Treasurer: SC Mosquito Control Association, Attn: Olin Towery,
Richland County Vector Control; 400 Powell Road; Columbia, SC 29203; (803) 576-2428 FAX (803) 576-2498
Association Website: www.scmca.net

**South Carolina Mosquito Control Association
2018 Annual Meeting
Tentative Agenda**

Thursday, November 8, 2018

9:00 AM	Presession: "How to Maintain ULV Equipment"	Carlos Gonzales, TJ Leibee, Joe Strickhouser
11:00 AM	Registration	
First Session	Moderator	Robert Cartner
1:00 PM	Call to Order & President's Remarks	Robert Cartner
1:10 PM	AMCA Update	Chris Lesser
1:30 PM	IPM at Manatee County Mosquito Control	Chris Lesser
1:50 PM	Product and Equipment Updates	
2:00 PM	Break	
Second Session	Moderator	Trey Reed
2:20 PM	CDC Southeastern Regional Center of Excellence	Caroline Weldon
2:50 PM	DHEC Waster Tire Removal	Jana White
3:10 PM	SC Arbovirus Activity	Dr. Chris Evans
3:25 PM	Product and Equipment Updates	
3:40 PM	Break	
Third Session	Moderator	Raymond Clark
4:00 PM	Using the State Contract for Emergency Response	Larry Motes
4:20 PM	Rebuilding NC Mosquito Control Programs	Mike Doyle
4:40 PM	Bee Biology Basics for Mosquito Control	Dr. Jennifer Tsuruda
5:00 PM	Product and Equipment Updates	
6:00 PM	Biting Time	
7:00 PM	Banquet	

Friday, November 9, 2018

Fourth Session	Moderator	Travis Shealy
9:00 AM	Perspectives on National Arbovirus Surveillance from CDC/DVBD	Nga Vuong
9:30 AM	"Residentially linked La Crosse Encephalitis cases suggest..."	Dr. Brian Byrd
10:00 AM	Product and Equipment Updates	
10:10 AM	Break (Checkout)	
Fifth Session	Moderator	Katherine Sandel
10:50 AM	MAMCA Update	Robert Cartner
11:00 AM	Pesticide Modes of Action	TBD
11:20 AM	Business Meeting	
12:00 PM	Adjourn	



SOUTH CAROLINA MOSQUITO CONTROL ASSOCIATION, INC.

Attn: Olin Towery, Secretary Treasurer

Richland County Vector Control

400 Powell Road

Columbia, SC 29203

OFFICE PHONE: (803) 576-2428

FAX: (803) 576-2498

MEMBERSHIP APPLICATION

NAME:

ORGANIZATION:

ADDRESS:

WORK PHONE:

FAX:

E-MAIL:

TYPE OF MEMBERSHIP/ DUES (Renewal due at Annual Meeting)

Active Member	\$ 10.00
*Sustaining Member	\$150.00

***Includes one active membership**

Please make checks payable to SCMCA and return to Olin Towery at the address above.

For Office Use Only:

Region: Upper / Middle / Lower

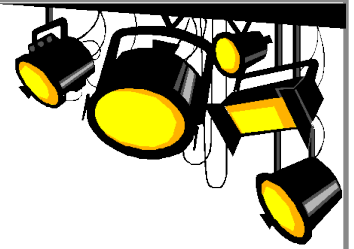
Amount Paid \$ _____ Date Paid: _____ ☐ Check # _____ ☐ Cash

Species Spotlight:

Newly Discovered Species!!

Ae. hagerii

This mosquito is easily identified by the abdominal bands that resemble the letter “H”. This is the most elusive mosquito of all! Its range is typically in the Beaufort, Charleston, & Hampton areas, however, they have been found in Colorado, Texas, and have even recently been sighted in Kentucky. They are also frequently found in the Appalachian Mountains. They don’t feed much but are typically found near horses, dogs & cats.

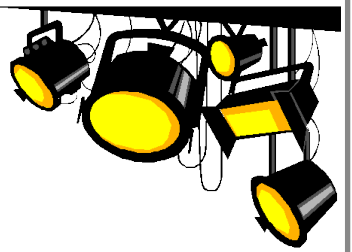


Species Spotlight:

Newly Discovered Species #2!!

Ae. carydensis

Note the unmistakable “C” pattern on the thorax that makes this mosquito easy to identify. This mosquito is unusual because it is a social insect, and instead of feeding on blood it prefers beer or Scotch. This is the only mosquito appreciated by the armed forces.



Species Spotlight:

Newly Discovered Species #3!!

Ae. McCordanator

This mosquito doesn't have very many markings, however, there is a distinct patch of white setae on top of the head. A recently discovered species in the past 6 years. Frequently found near aquatic vegetation. Was found originally around Santee-Cooper but recently has migrated to the Edisto area.



This issue is dedicated to John Grant, a true friend, colleague, and all-around good person. You will be missed by all of your fellow professionals in the SCMCA.



2018 SCMCA Board of Directors

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SCMCA – Promoting Mosquito Control in South Carolina

The Landing Rate Count

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