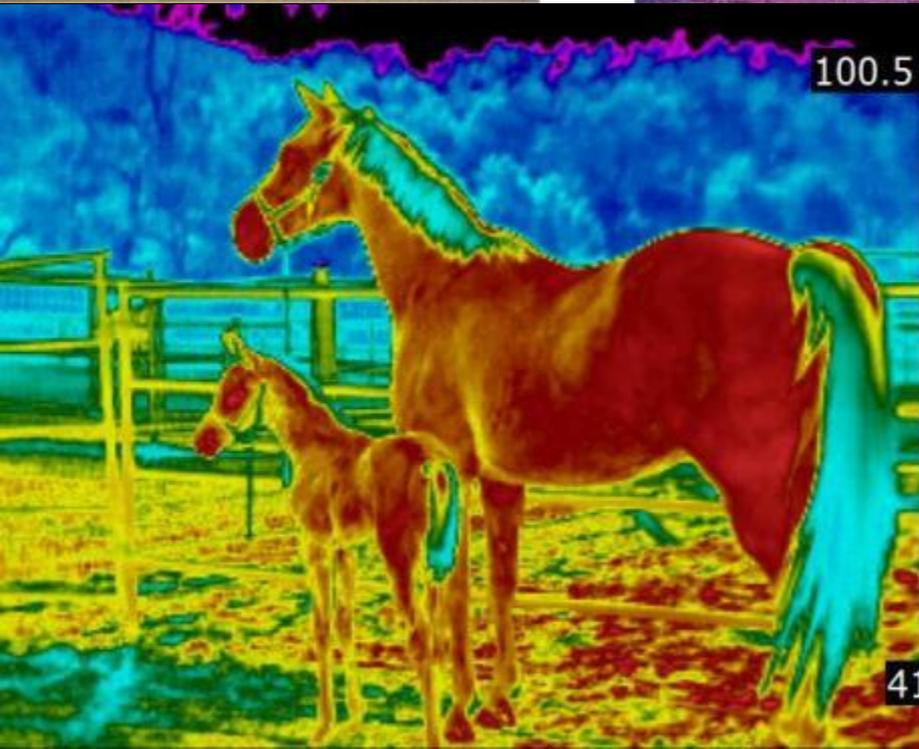
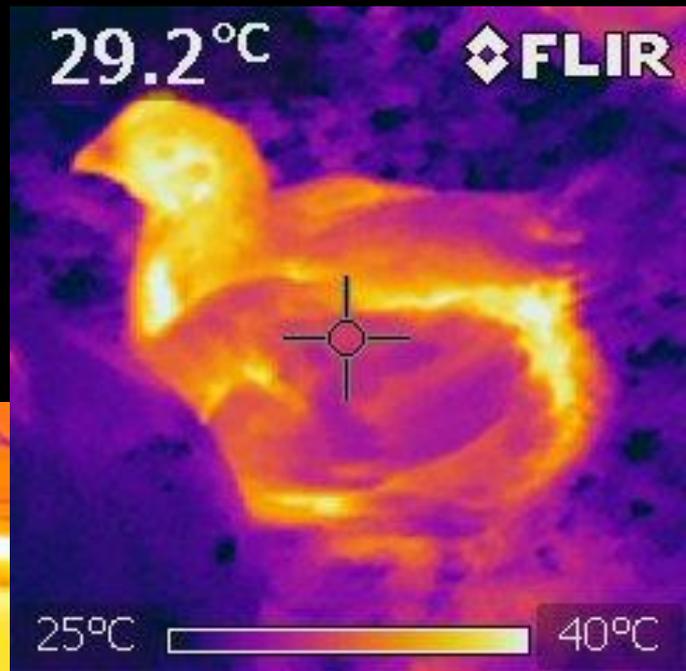
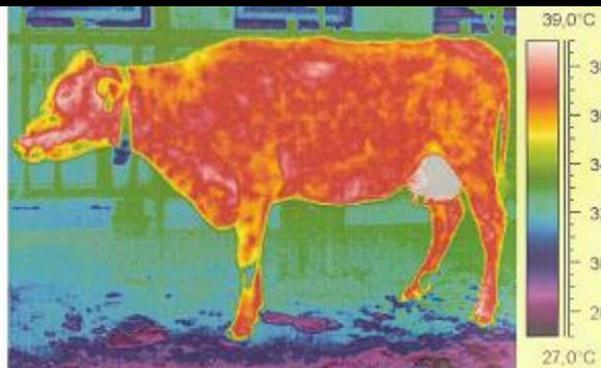


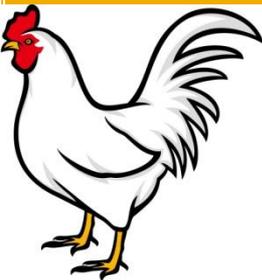
RCPP: Taking A Different Approach



Poultry

Represents 40% of all Ag in SC and 80% of all animal Ag in SC

Annual sales are over 1.5 Billion



Row Crops/Greenhouse/Hort

South Carolina row crops, greenhouse and nursery products generated almost 1.3 Billion in 2012.



SC AGRICULTURE

Total value of agricultural products sold 3+ Billion



Cattle, Hogs and other critters

Cows are raised in every county in the state. Beaufort County has the fewest with 700 head, while Anderson County tops the chart with 42,000 head.

In 2014, South Carolina had 360,000 head of cattle, 245,000 hogs, 12 million turkeys and 781,960 quail.



Forestry

2/3 of all the land area in SC is forested (that's 12 million acres!)

Of that, 74% is privately owned

Timber is South Carolina's largest cash crop, with an annual delivered value of over \$876 million.



Ok.... No More Stats... I promise...

- So Ag is big business in SC but as we all know, the proceeds back to the farm are usually left wanting....

“A PENNY SAVED IS A PENNY EARNED.”

BENJAMIN FRANKLIN

© Lifehack Quotes

Ben Was Right

- Lets save those pennies by not having to spend them in the first place!!



Reducing On Farm Energy Use

- SCDNR, NRCS and Clemson University are partnering up to help reduce on farm energy use.
- Poultry houses have been our primary targets but there are opportunities for greenhouses, swine production and dairy operations as well.

Where Can We Save Producers \$, Keep Animals Comfortable and Reduce Load?

- Southern Summers...
- If you think it's hot...
- Try being a chicken!



Updating Equipment

- Lighting
 - Converting from Incandescent to LED is HUGE
- Fans
 - Upgrading old worn out fans with newer high efficiency fans
- Controllers
 - Installation of controller systems automates the running of the whole house
- Insulation
 - If the heat or cold never creeps in, you never have to contend with it
- Radiant Heating
 - Replacing old forced air or pancake style heaters with radiant heating saves tremendous amounts of gas

The 'Auditing' Process



SCDNR Responsibilities

- Provide on farm evaluation of energy saving opportunities (on-site assessments)
- Provide assistance in applying for financial assistance from government and utility programs
- Certify that the specified equipment or technology has been implemented correctly according to the requirements of the source of financial assistance.

On Site Assessments

- SCDNR staff will work in conjunction with Clemson staff to evaluate on farm energy improvements by utilizing on farm questionnaire and farm specific planning to develop solutions which meet the needs of individual operators.
- A high level of bio-security will be maintained. Boot covers, suits, vehicle disinfection, etc.

Provide Assistance to Producers

- Talk with individual operators and detail available programs offered by utility companies, government programs (EQIP) and other sources which may be available to them.
- SCDNR staff will work closely with other agencies and maintain communications to assure that they are aware of producer interest.
- SCDNR staff will also work closely with Clemson University staff and NRCS in the planning process as needed to develop conservation plans.

Practice Certification

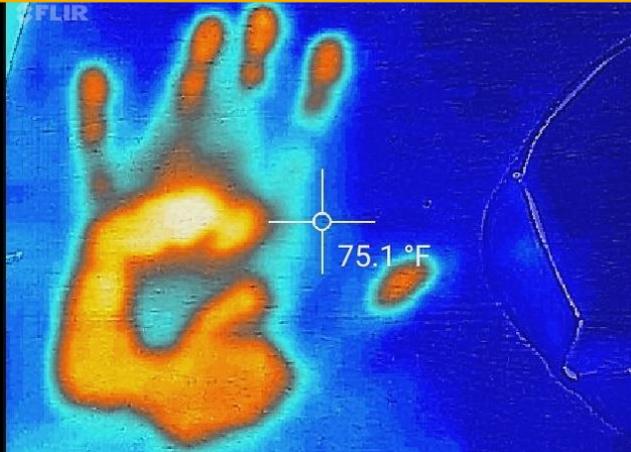
- SCDNR staff will certify that practices meet standards outlined by various programs such as EQIP.
- A detailed certification sheet with pictures of installed practices will be provided to all parties involved upon request and certification sheets will be provided to NRCS staff for inclusion in 6 part folders for EQIP contracts.

FLIR... Forward Looking Infrared

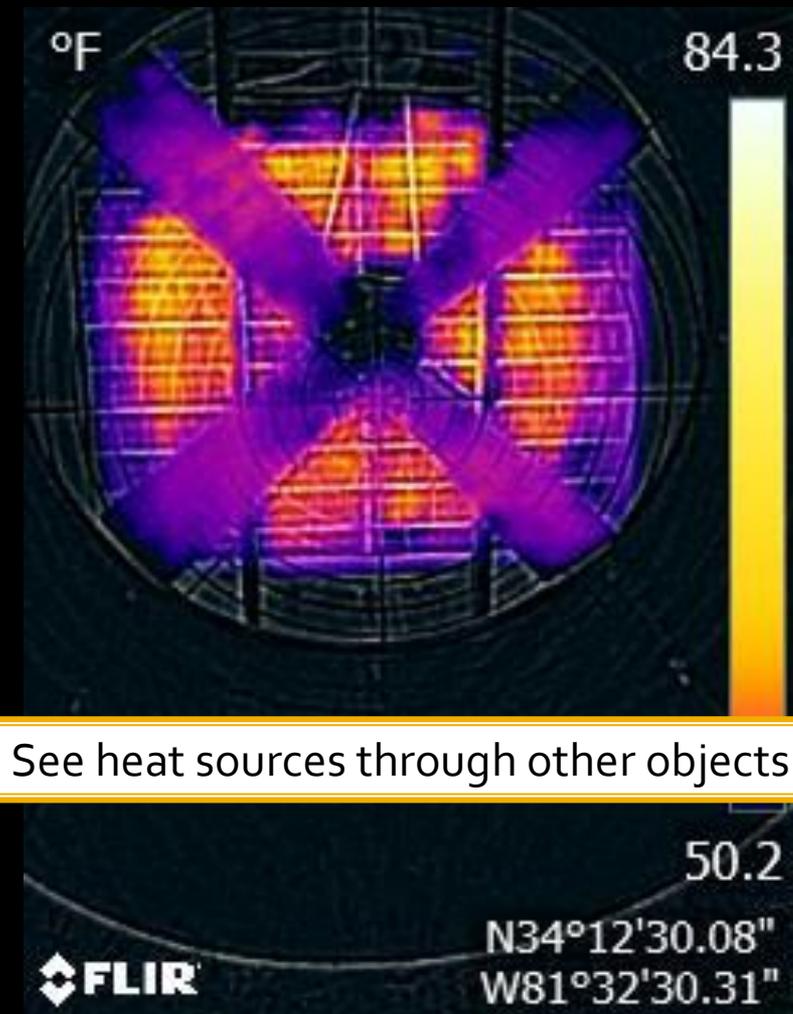
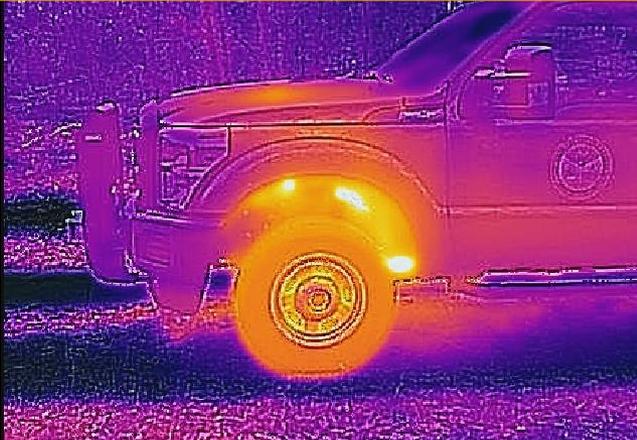


Great, we can see heat.... What can we do with it?

See Heat left behind by objects

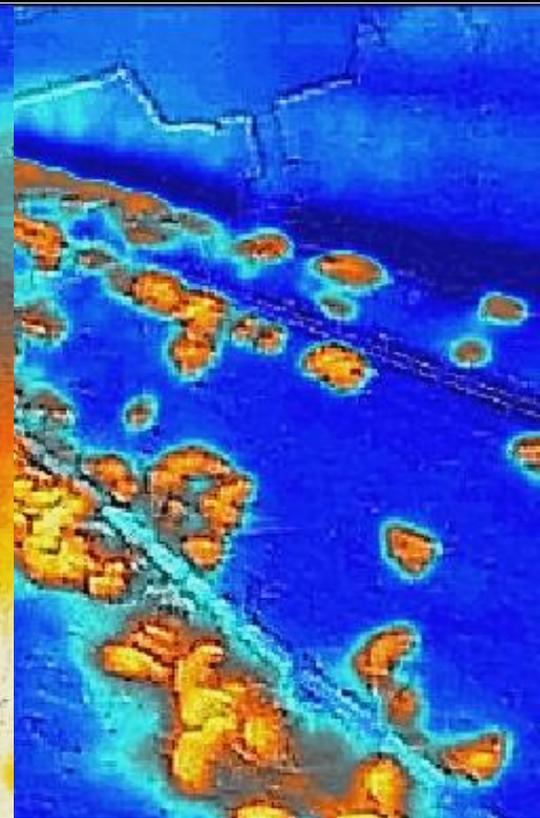
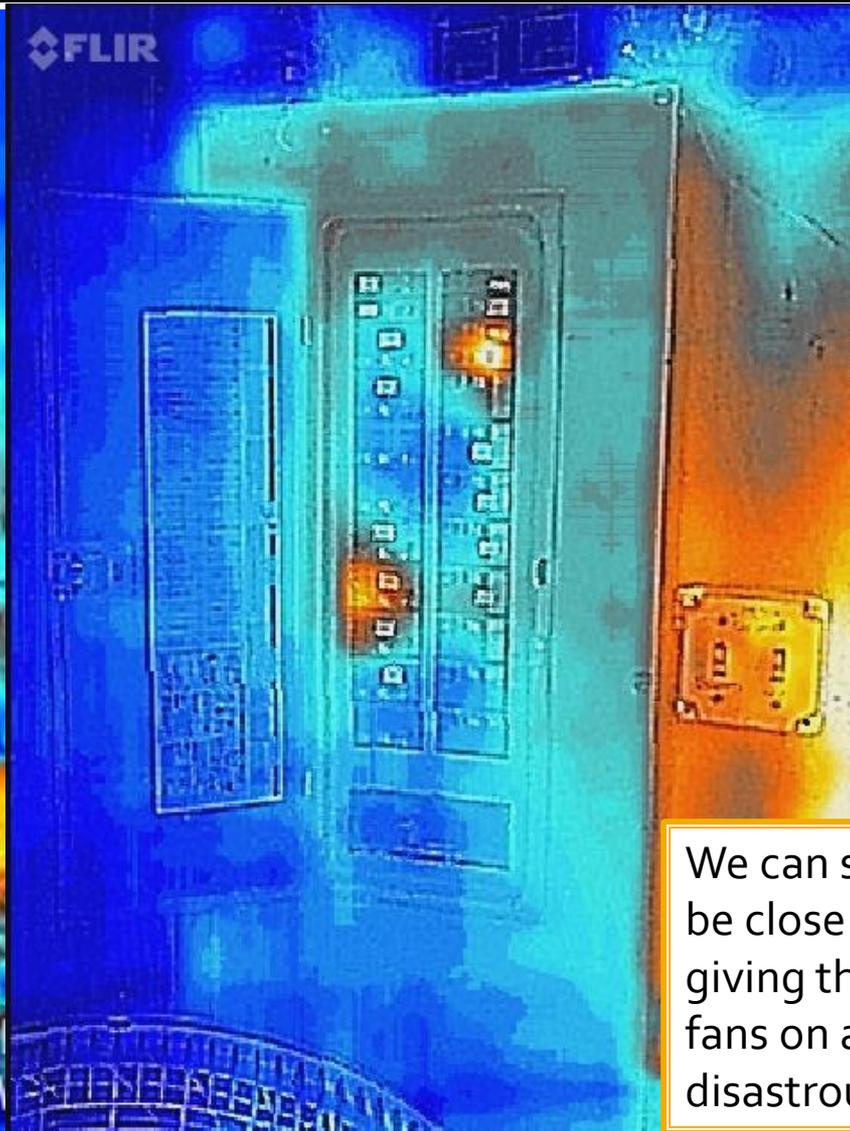
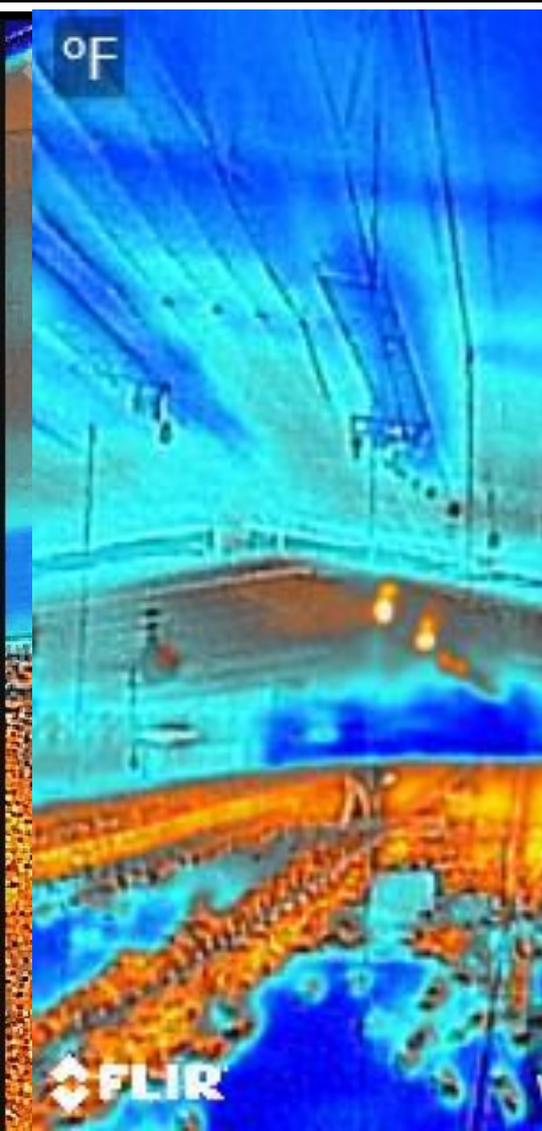


Scan for heat sources in real time



See heat sources through other objects

How does this help.....



We can see breakers that might be close to overheating or close to giving the farmer trouble. Losing fans on a failed breaker is disastrous.

Possibilities abound..... Think Outside the Box!

- Identify a problem area
- Find partners who can bring expertise, funding, etc. to the table
- Move forward with RCPP proposal and identify the scope of your project

QUESTIONS