



Emma Rast (2020-21 intern)

SC-IPC

Z PSIVE PEST COUNTY

- Andie Kolarova (2021-22 intern)
- Julie Tuttle
- Ann Prince (RIP)
- Bob Gale
- Pete Schubert
- Rich Shaw
- Perry Sugg
- George Morris
 - And others!

Johnny Randall

Director of Conservation





NC-IPC & SC-IPC conference (2019)





Janie Marlow and the conference signature cocktail



Risk assessment and spread

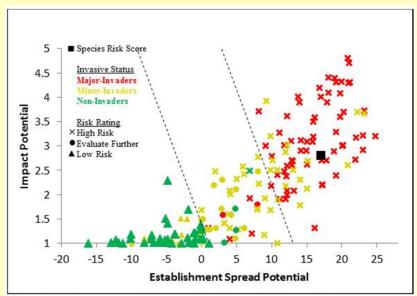


Figure 2. *Ficaria verna* risk score (black box) relative to the risk scores of species used to develop and validate the PPQ WRA model (other symbols).



United States Department of Agriculture

United States Department of Agriculture

Animal and Plant Health Inspection Service

August 12, 2015

Version 1

Weed Risk Assessment for *Ficaria* verna Huds. (Ranunculaceae) – Fig buttercup



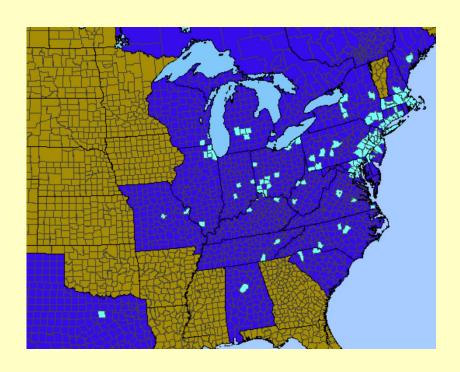
Top: Ficaria verna infestation and plant habit (source: Sylvan Kaufman). Middle: Aerial bulbils at the bases of plant leaves, and underground tubers (source: Leslie J. Mehrhoff, University of Connecticut, Bugwood.org). Bottom: Infestation at a local park near Washington, D.C. (source: Spencer Johnson, Invasive Plant Control, Inc.).

Agency Contact

Plant Epidemiology and Risk Analysis Laboratory Center for Plant Health Science and Technology

Plant Protection and Quarantine Animal and Plant Health Inspection Service United States Department of Agriculture 1730 Varsity Drive, Suite 300 Raleigh, NC 27606

Current distribution and potential for spread



- Counties colored aqua-blue represent known populations of *Ficaria verna*
- States colored gold have no reported infestations of Ficaria verna

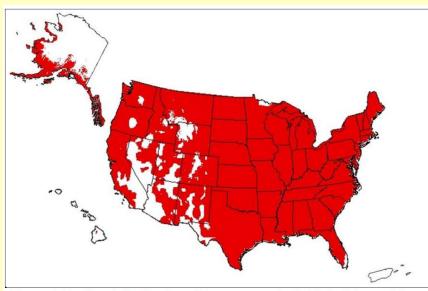


Figure 1. Predicted distribution of *Ficaria verna* in the United States. Map insets for Alaska, Hawaii. and Puerto Rico are not to scale.

Area colored red indicates potential distribution of Ficaria verna



Invasive Weed Alert!

Be on the lookout for the invasive plant Fig Buttercup growing in your yard, in drainage ditches, and along streams in natural areas.

Fig Buttercup (Ficaria verna) is an herbaceous invasive plant native to Europe, N. Africa & West Asia that is aggressively colonizing floodplain and streamside natural ecosystems within the Triangle and NC. The aggressive nature of this plant disrupts the ecological balance of natural ecosystems and displaces existing native spring wildflowers & native plant communities. In the home landscape, Fig Buttercup is a problematic spring weed that can take over home lawns and plant beds. Fig Buttercup easily spreads offsite from home landscapes and into drainage ways leading to nearby streams and floodplains.







How You Can Help

ary followed by yellow multi-petaled lowers blooming in late February

Look for It. Keep a lookout for Report It. If you find Fig Buttercup in the green foliage of Fig Buttercup your yard, along public greenways, or in other locations and find more detailed information on Fig Buttercup, please visit our webpage at



The NC Invasive Plant Council is working with local organizations and government agencies to Identify, Map, and Remove populations of Fig Buttercup in the Triangle area. We need your help to stop the spread of this invasive plant!

For more info, visit http://nc-ipc.weebly.com/fig-buttercup-project

Sponsoring partners: City of Raleigh, Wake County, City of Durham, Durham County, Orange County, Triangle Land Conservancy, Duke Forest, Eno River Association, Ellerbe Creek Watershed Association, North Carolina Botanical Garden.



Triangle Gardener back cover

The News&Observer

Local News Voter Guide Business Triangle Now Sports Living Jobs/Recruiting Personal Finance Obituaries

This pretty yellow flower doesn't belong in NC. And it's harming Triangle backyards.

BY CHARLIE INNIS

UPDATED APRIL 18, 2021 10:07 AM







Non-native plant species are spreading across the Southeast. While many of the plants can be bought in nurseries, some botanical experts say you should avoid growing them. Here are examples of flora considered a threat to natural ecosystems. BY KEVIN KEISTER



Only have a minute? Listen instead Powered by Trinity Audio





It floats downstream. After a spell of rain, water carries it through tributaries, where it nestles in the soil along rivers and creeks. For months, it lies unnoticed, hidden in the dirt.

But it reveals its presence when spring arrives. This year, it is taking over a watershed spanning Durham and Chapel Hill, popping up in parks and backyards like a rash on the earth's surface.

News & Observer interview



Valerie Hammer, a gardener, wondered aloud whether the three plant experts would be successful.

"There are invasive plants, so they're taken over, I understand that," she said.

"But they have skills that make them extremely well-suited to survive," she continued. "And that's the way nature works. It's survival of the fittest. So what chance do you really have to eradicate all of this?"





https://nc-ipc.weebly.com/fig-buttercup-project



What is Fig Buttercup, and why is it a problem?

Fig buttercup (*Ficaria verna*) is an invasive plant that is aggressively taking over floodplain and streamside ecosystems in North Carolina. It spreads easily when its bulblets and tubers spread through water to start new colonies. Once established, it creates dense mats that out-compete native plants and disrupts the natural balance of our ecosystems.

Also called lesser celandine and pilewort, fig buttercup is generally only visible above ground in winter and spring. It puts out leaves in winter, and then its yellow flowers appear in March and April. By early summer, the flowers and leaves die back, and the plant becomes dormant until the following winter.

Native to Europe, North Africa, and West Asia, fig buttercup has long been invasive in the northeastern U.S. In the last 10 to 15 years, it has increasingly become a problem here in North Carolina. Sometimes grown as an ornamental plant, it can bread from home gardens into drainage ways to nearby streams and floodplains



Fig buttercup blanketing a Triangle-area lawn. Photo by Charlie Innis for the News & Observer.

Report a finding

Make an observation on iNaturalist

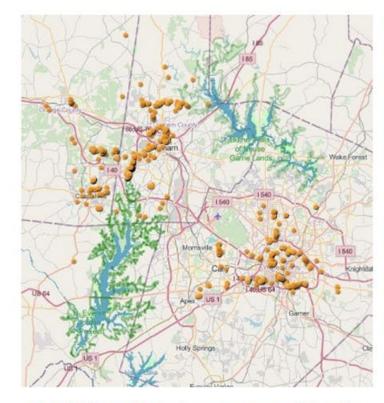
iNaturalist (**inaturalist.org**) is a joint venture between the California Academy of Sciences and the National Geographic Society that allows you to upload location-specific photos of plants, animals, and fungi to its free website or app.

If you upload your observation of fig buttercup to iNaturalist, it helps us track the plant's spread through the state. During fig buttercup's active seasons, we regularly update our GIS map of known sightings with the latest iNaturalist observations.

New to iNaturalist? Watch a tutorial to get started.

Email us

If you're not comfortable with iNaturalist, send an email noting the location of the sighting (and preferably including photos) to figbuttercupnc@gmail.com.



Find sightings of fig buttercup near you: click on the map to open the interactive viewer! We regularly update this GIS map with iNaturalist observations made in Chatham, Orange, Durham, and Wake Counties during fig buttercup's active seasons.



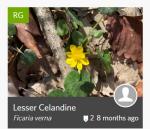
IDENTIFIERS

Recent Observations •

Overview

OBSERVATIONS

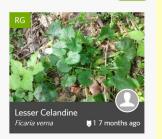


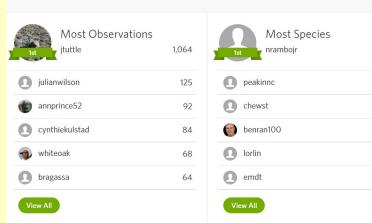


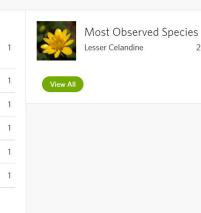
SPECIES



OBSERVERS







iNaturalist **Fig Buttercup in the Triangle Region** project and data import to **Fig Buttercup Project** database

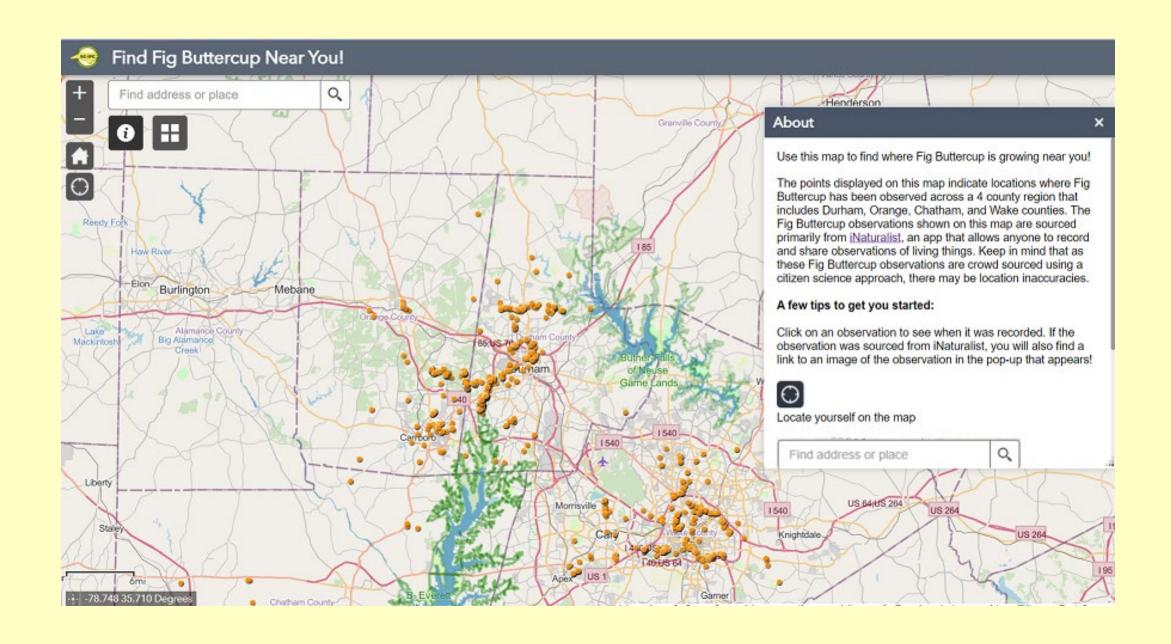
Back to Fig Buttercup in the Triangle Region

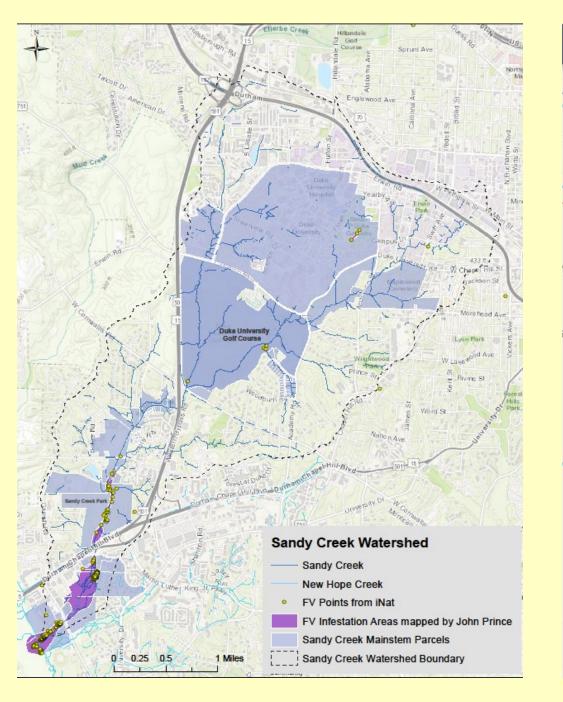
Fig Buttercup in the Triangle Region

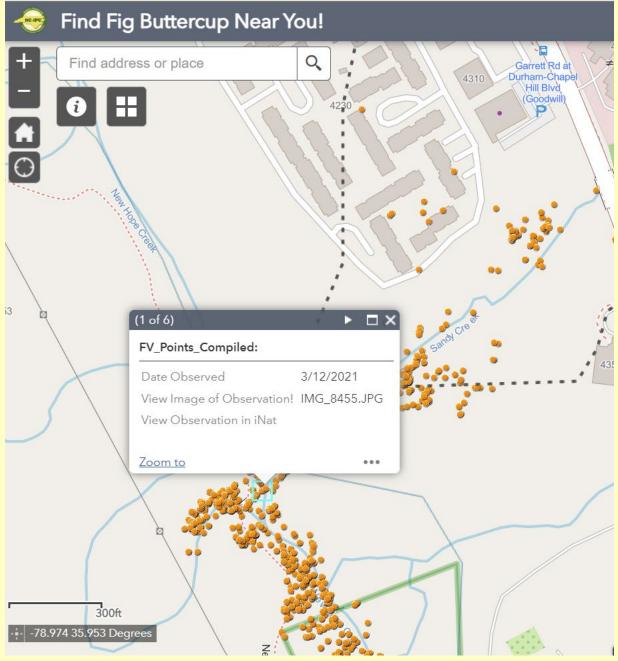
Fig Buttercup (Ficaria verna) also known as Lesser Celandine is an introduced, aggressive species that is rapidly colonizing the Triangle region, particularly along streams. We need your help to understand where it has spread so we can treat it effectively. And we have to move fast; the plants flower in March-April and are gone by May-June. Learn more about this plant from the NC Invasive Plant Council: http://nc-ipc.weebly.com/ficaria-verna--fig-buttercup.html, including a link to a fact sheet by the Plant Conservation Alliance.

Created by: 🌑 emmakilbourn - March 12, 2021

Project admins: 🔊 jtuttle, 🌑 emmakilbourn







P34		· :	\times \checkmark f_x	1	00	0 WINDERM	ERE DR								
A	Н	0	P	Q OUTV	R V	(AC	AD	AE	AF	AG	АН	Al	AJ	AK	A
FID_FV_		OWNER CITY OF DURHAM ATTN GEN SERVICES REAL EST	ADDR 3510 SANDY CREEK DR	DURHAN		ProlFvSite parcel involved in 3 sites	phone 919								
		COLESINC	3107 PICKETT RD		П	If parcel contains 1 Fv site	919								
	1 57		3510 SANDY CREEK DR	DURHAN	NC	parcel involved in 3 sites	919								
	1 57	SOUTH SQUARE OWNER LLC (multi family home) SOF-X MISSION	4240 LARCHMONT RD	DURHAN	NI N	I parcel contains 1 Fv site	919								L
	1 57	UNIVERSITY PINES LP GOODWILL COMMUNITY	614 SNOVCREST TRL	DURHAN	NI N	parcel contains 1 Fv site	8662970717								\vdash
		FOUNDATION INC	4318 GARRETT RD		П	parcel contains 1 Fv site	9194931182								
	1 57	AREC 14 LLC (Uhaul) SOUTH SQUARE OWNER LLC (Alen Place Luxury	4411 DURHAM CHAPEL HILL BLV 100 ALEXAN DR		П	If parcel contains 1 Fv site If parcel contains 1 Fv site	9196829302 9842445259								
		ACV XIII LLC (at the Garrett Apartments)	4230 GARRETT RD		П	parcel involved in 2 sites	9194892302								
		TUESDAY TWOSOMES LLC (Sweet Paws)	4350 GARRETT RD			I parcel contains 1 Fv site	9192467530								
	1 57	BOULEVARD FOREST & TREES LLC (forest land?) FISHER JEFFREY A	3601 SOUTHWEST DURHAM DR	DURHAN	NI N	parcel contains 1 Fv site	919								
	2 52		678 ERWIN RD	DURHAN	NI N	parcel contains 1 Fv site	mobile 9196320161 land	91940363	4 3						L
	2 52	(landlord?) ORANGE COUNTY	667 ERWIN RD	DURHAN	NI N	parcel involved in 4 sites			354898						H
		NORTH CAROLINA	686 ERVIN RD			parcel contains 1 Fv site	919								\vdash
		DUKE UNIVERSITY DEPARTMENT OF TRANSPORTATION		DURHAN		parcel involved in 2 sites parcel contains 1Fv site	919								
	2 52	FISHER JEFFREY A (see	678 ERWIN RD		П	I parcel contains 1 Fv site	919								
	3 44	CITY OF DURHAM ATTN GEN SERVICES REAL EST	106 W KNOX ST	DURHAN	NI N	Il parcel contains 1 Fv site	919								
	4 47	NC DEPT OF TRANSOPRIATION MOSIER TODD S MOSIER	1612 EDGEVALE RD	DURHAN	NI N	I parcel involved in 2 sites	919								
	5 42		212 DACIAN AVE	DURHAN	NI N	parcel contains 1 Fv site	mobile1 8167180702 mo	bile2 8168	853744 m	obile3 512	63338231	and1 51247	77990 lan	d2 219436	6895 T
		ERINK (see above entry)	214 DACIAN AVE		П	parcel contains 1 Fv site	919								\vdash
		NISONGER MATTHEW A	5611 MT SINALED		П	parcel contains 1 Fv site	mobile1 3238296535 mo		2745087 la	and 919401	16810				
		NORTON JANE M	5609 MT SINAI RD 5605 MT SINAI RD		П	Il parcel contains 1Fv site Il parcel contains 1Fv site	9194931459 9194901849								
	7 46	CITY OF DURHAM ATTN GEN SERVICES REAL EST			П	parcel contains 1 Fv site	919								
	7 46	DURHAM PUBLIC SCHOOLS BOARD OF	4800 OLD CHAPEL HILL RD	DURHAN	NI N	I parcel contains 1 Fv site	919								
	8 53	UNITED STATES OF AMERICA DUKE UNIVERSITY	4452 OLD CHAPEL HILL RD	DURHAN	NI N	parcel contains 1 Fv site	919								L
	9 4	WILLIAMS AMY HART RICHARD E HICKS	2402 ACADEMY RD	DURHAN	NC	parcel involved in 2 sites	919								L
		SALLYO HOLMES THOMAS P	1405 N MANGUM ST	DURHAN	NI N	Il parcel contains 1 Fv site	mobile 9199327383 land	11 9196671	405 land2	81393273	83				
		HOLMES NANCY C NYE SOLIE GUY THOMSON	1408 N MANGUM ST		П	parcel contains 1Fv site	land1 9196823426 land2								\vdash
	11 54	TRUSTEE (Leah Mahoney)	101E MARKHAM AVE			parcel contains 1 Fv site	mobile 9198018203 land	91938389	157						_

Locating and contacting 151 neighbors in the Sandy Creek watershed area by e-mail, phone, and US Mail to request access to properties for purpose of monitoring and (hopefully) treatment.



Local Contacts

Who you gonna' call?

Looking to connect with people and organizations working to stop the spread of fig buttercup in your area? This list of individuals and organizations is a work in progress; check back if you don't see your area represented.

Raleigh

City of Raleigh

Leigh Bragassa

Invasive Program Coordinator

Raleigh Parks, Recreation and Cultural Resources

leigh.bragassa@raleighnc.gov

919-278-6244

Owen Cass

Raleigh Parks, Recreation and Cultural Resources

owen.cass@raleighnc.gov

Durham

Durham County Open Space Division

Celeste Burns

Open Space & Real Estate Coordinator

cburns@dconc.gov

Phone: (919) 560-7956

Eno River Watershed (Durham/Orange Counties)

Kim Livingston

Director of Conservation and Stewardship

Eno River Association

stewardship@enoriver.org

Ellerbe Creek Watershed

Donna Myers

Stewardship Director, ECWA

donna@ellerbecreek.org

Rickie White

Executive Director, ECWA

rickie@ellerbecreek.org

Duke Forest

Tom Craven

Forest Supervisor, Duke Forest

Duke University

Phone: 919-489-7211

tmc8@duke.edu

Chapel Hill

Johnny Randall

Director of Conservation Programs, North Carolina Botanical Garden

jrandall@email.unc.edu

919-962-2380

Orange County

Orange County Parklands

Christian Hirni

Land Conservation Manager

Natural & Cultural Resources Division

chirni@orangecountync.gov

919-245-2514

Eno River Watershed (Durham/Orange Counties)

Kim Livingston

Director of Conservation and Stewardship

Eno River Association

stewardship@enoriver.org

Native Lookalikes

These are a few common North Carolina native plants that are also low-growing, woodland wildflowers with yellow blooms. Notice that none of them has as many petals (eight) as fig buttercup, and in most cases, the leaves are a different shape, too.



Green-and-gold (Chrysogonum virginianum)

- Flowers have just five petals
- Flower stalk is covered with fine hairs





Wood sorrels (Oxalis stricta, Oxalis dillenii, Oxalis grandis, and more)

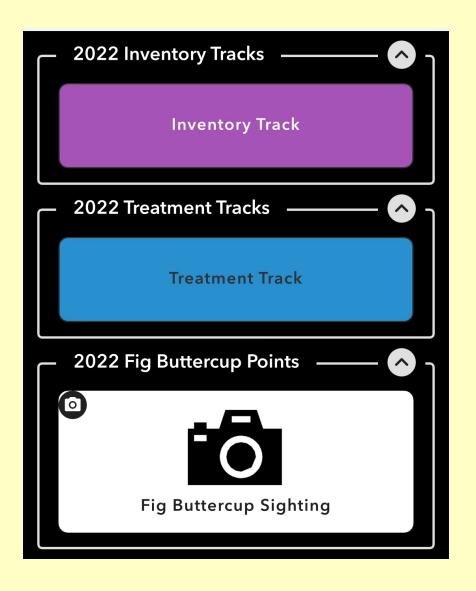
- Flowers have just five petals
- · Leaves are divided into three like a shamrock



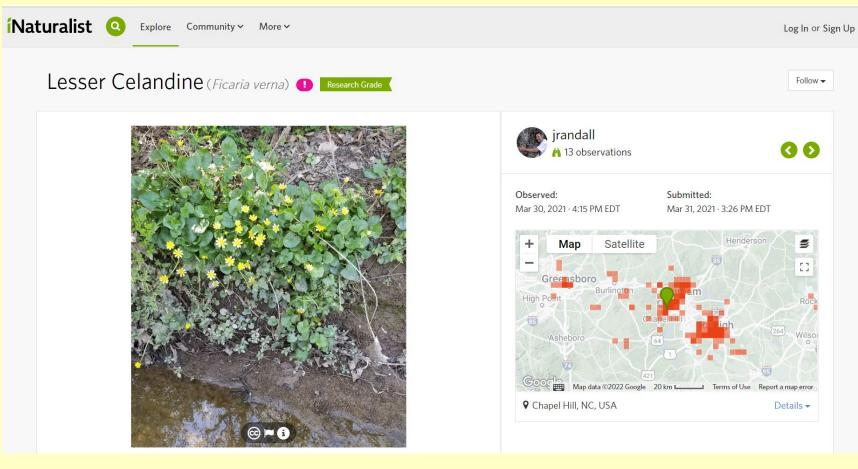


Training on Inventory Tracks app for inventory and treatment





My realm...













Ficaria verna
(fig buttercup)
smother
treatment
experiment





