# "Putting the Cat Back"

Or, the evolution of Return to Field and TNR diversion programs in North

American animal shelters

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www.sheltermedicine.com



## Historical pathways



Return to owner

Adoption

Humane euthanasia

Suffering, painful death and/or causing unacceptable problems or risks out in the community

## My "aha" moment

## SHELTER CONSULTATION REPORT JACKSONVILLE ANIMAL CARE AND CONTROL SEPTEMBER 16-18, 2008 Maddie's <sup>®</sup> Shelter Medicine Program, College of Veterinary Medicine, University of Florida Koret Shelter Medicine Program, UC Davis School of Veterinary Medicine Maddie's® Shelter Medicine Program, College of Veterinary Medicine, Cornell University December 10, 2008 Maddie's® Shelter Medicine Program College of Veterinary Medicine UNIVERSITY of FLORIDA. Maddie's\* Shelter Medicine Program at Cornell

Figure 5.2.1.1. Sick kittens were housed in the kitten holding room with healthy kittens.





Figure 5.2.1.5. Other stressed cats cowered in their litter box because of no



Figure 5.2.1.6. This cage contains 2 adult cats that do not have adequate space for separation from each other or the litter box.

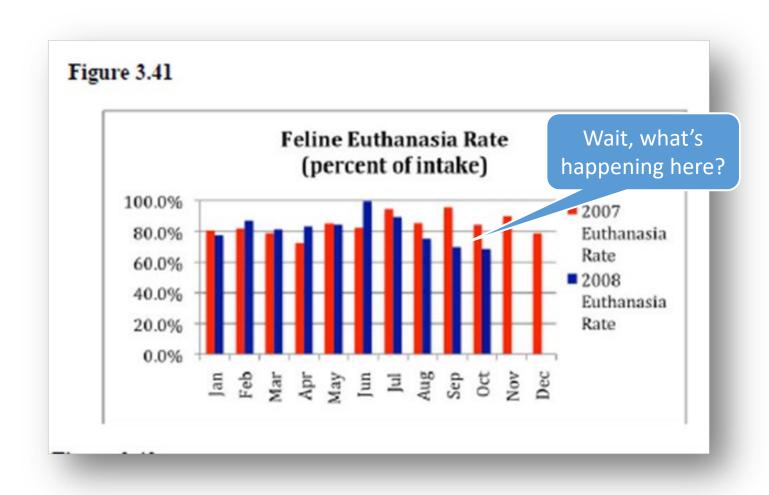
Figure 5.2.1.4. Many cats were stress to the point of hiding under



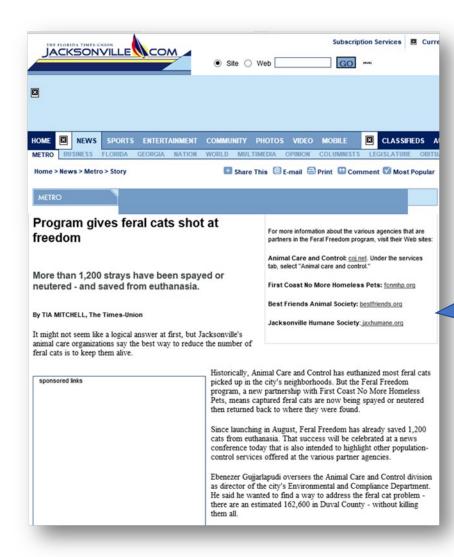




## Underlying problem

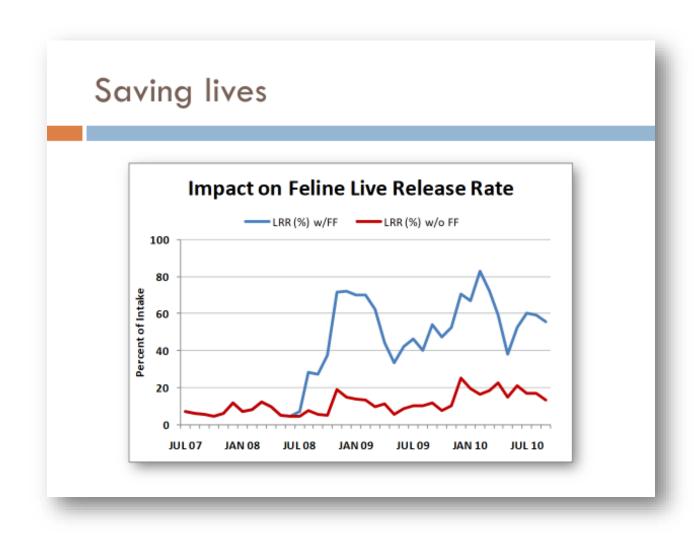


## You're doing what now?

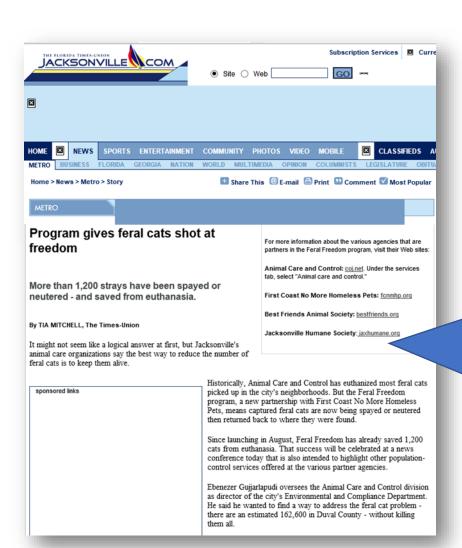


City Animal Care and Control workers still will pick up feral cats when they receive complaints or spot roamers in neighborhoods. But instead of taking the cats to a shelter...the cats are spayed or neutered, their ears clipped for identification purposes and a microchip is inserted under their skin so they can be tracked. Once the animals recover from surgery, they are returned back to where they were found.

# No surprise here

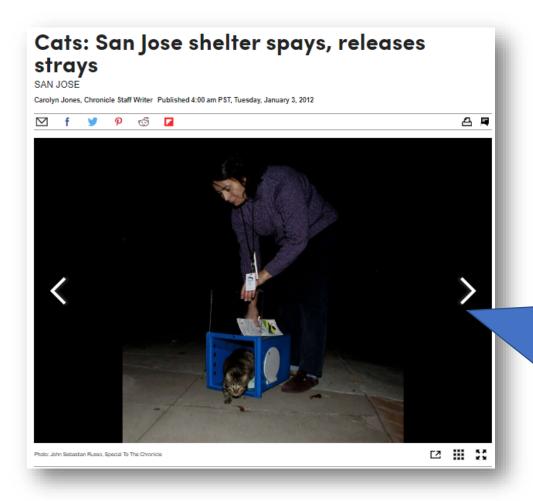


## But really?



It might not seem like a logical answer at first, but Jacksonville's animal care organizations say the best way to reduce the number of feral cats is to keep them alive.

# Let's try that here



San Jose's animal shelter is among the first in the country to try a new approach to dealing with feral and stray cats. Instead of euthanizing those that aren't adoptable, the shelter spays or neuters them and releases them back to the vacant lot or back alley from which they came.

(The shelter director) said the shelter and Audubon Society ultimately have the same goal: to see fewer feral and stray cats in the world. Over time, with enough cooperation from people, the trap-and-release method will work, he said. The alternative is to continue euthanizing cats that don't have owners, a policy that's shown limited results, he said

New pathway



Whoa!

Return to owner

Adoption

Return to Field/SNR

Humane euthanasia

Suffering and/or causing unacceptable problems or risks out in the community

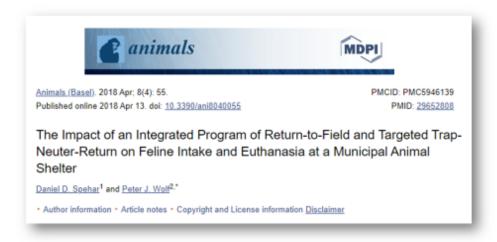
## It worked!

Study of the effect on shelter cat intakes and euthanasia from a shelter neuter return project of 10,080 cats from March 2010 to June 2014

Karen L. Johnson1 and Jon Cicirelli2

- National Pet Alliance, San Jose, CA, United States
   San Jose Animal Care and Services, San Jose, CA, United States
- Euthanasia down 75%
- Euthanasia due to URI down 99%
- Cats picked up dead down 20%
- Intake (cat and kitten) down 29%

## Not a fluke



- 11,749 cats sterilized and returned over 3-year period
- Euthanasia down 84%
- Calls for dead cat pickup down 24%
- Intake down 38%

# Why?

Wildlife Damage Management Conferences -- Proceedings

Wildlife Damage Management, Internet Center for

1-1-2005

Demographic and Spatial Responses of Coyotes to Changes in Food and Exploitation

Eric Gese

USDA, APHIS, Wildlife Services, National Wildlife Research Center, Logan, UT, USA

Removals brought about a drastic reduction in pack size and a corresponding decrease in density. However, both pack size and density rebounded to pre-removal levels within 8 months post-removal. .. Accounting for both changes in prey abundance and coyote density, litter size was significantly related to total prey abundance/coyote. With increasing prey and reduced coyote density, mean litter size doubled in the removal area compared to pre-removal levels.

## The truth about carrying capacity

Effects of low-level culling of feral cats in open populations: a case study from the forests of southern Tasmania

Billie T. Lazenby A,B,D, Nicholas J. Mooney and Christopher R. Dickman A

ASchool of Biological Sciences, A08, Un BDepartment of Primary Industries, Parks Tas. 7000, Australia.

<sup>C</sup>PO Box 120, Richmond, Tas. 7025, Au

<sup>D</sup>Corresponding author. Email: Billie.Laz

"Contrary to expectation, the relative abundance and activity of feral cats increased in the cull-sites, even though the numbers of cats captured per unit effort during the culling period declined. Increases in minimum numbers of cats known to be alive ranged from 75% to 211% during the culling period, compared with pre- and post-cull estimates."

## Benefits of RTF for feral cats

- Reduces crowding, illness and euthanasia in shelters
- Reduces feline birth and translocation with associated risks
- Addresses the source of many nuisance complaints
- Stabilizes community cat populations more effectively than other available tools



## What about friendly cats?

- Originally adoption was preferred over RTF where capacity existed
- Adoptive homes saved for cats that can't go back
- Provide "Fates better than death" only for those that exceed adoption capacity

#### Which cats qualify?

- Healthy
- · Stray/un-owned
- · Adults and older kittens
- Behavior depending on adoption/transfer capacity
  - Focus on "fates better than death"
- No imminent danger/environmental concern at location of origin

#### God Help the Ones That Purr

| Thursday, February 3 2011 | Dr. Emily Weiss | 8 Comment



Recently there has been more focus and uptake program that was first developed down in Jackson Rick DuCharme—The Feral Freedom program. V heard about the program, it gave me pause—ther chills, in broad-brush description, Feral Freedom entering the spelter who proport in beauth pages the program of the program of the page the pages the program of the program of the pages the pages the program of the pages to the pages the pages the pages the pages the pages to the pages pages

environment they came from, do not appear to be fully socialized, and are not i immediate threat of human harm. They are spayed or neutered and returned to came from. When the cat is returned, information about the program is distribut homes or businesses nearby.

When I look at the data to rive release rates of cats is shetters across the coun an addit cut in a shetter is usually more of a risk than being in the co-pairing out know that is quite a statement I just made. And, with the data pointing to live in under 20% for many community's shetter cats, it is a priety black-and whele fact try to keep those cats healthy and get them out alive, but frankly, a shetter is in necessarily a physically or emotionally healthy place for a semi-socialized or uncat.



Several weeks ago I was with a working group locust discussion of the measurement of spayheuther impact was staking about the start of the Jacksonville progra ago. She noted that in the beginning, the program for those cats they could, to the best of their ability, dete completely unsocialized feral cats. With a very low in for adult cats in Jacksonville at the time, Dr. Levy not

31

## But remember this?



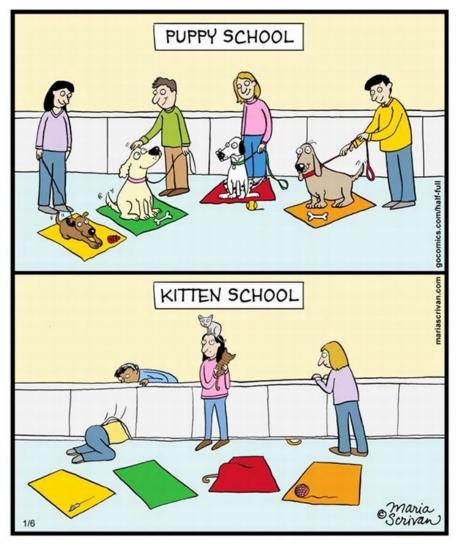
Return to owner

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# One difference between cats and dogs



## Another difference between cats and dogs

Fewer than 1 in 10 cats recovered by a call or visit to a shelter

#### Search and identification methods that owners use to find a lost cat

Linda K. Lord, DVM, PhD; Thomas E. Wittum, PhD; Amy K. Ferketich, PhD; Julie A. Funk, DVM, PhD; Pāivi J. Rajala-Schultz, DVM, PhD

Objective-To characterize the process by which owners search for lost cats and identify

Design—Cross-sectional study

Sample Population-Owners of 138 cats lost in Montgomery County, Ohio, between June 1 and September 30, 2005

Procedures—A telephone survey was conducted.

Results-73 of the 138 (53%) cats were recovered; median time to recovery was 5 days (range, 0.5 to 81 days). Most cats (48 [66%]) that were recovered returned home on their own or were found in the neighborhood (5 [7%]); most other cats were recovered through posting of neighborhood signs (8 [11%]) or calling or visiting an animal agency (5 [7%]). The highest success rate for any of the search methods that were used was only 12% (posting neighborhood signs). Only 26 of the 138 (19%) cats had some type of identification at the time they were lost (ie, identification tag, rabies tag, or microchip). Owners allowed 82 (59%) cats to spend at least some time outdoors. The percentage of sexually intact cats recovered by their owners (4/16 [25%]) was significantly lower than the percentage of neutered cats recovered (69/122 [57%]).

Conclusions and Clinical Relevance—Results suggest that the percentage of lost cats recovered by their owners is low, possibly in part because of the lack of use of traditional identification methods and the general acceptance that cats may roam. Veterinarians can help educate owners about the importance of identification and the need to keep cats indoors. (J Am Vet Med Assoc 2007;230:217–220)

Cats have surpassed dogs as the most popular pet in the United States, with American households owning an estimated 72 million cats in 2002.1 Even more so than dogs, cats that stray from their homes are at risk for injury and death. Given the emotional attachment that many owners have to their pets, having a cat stray from its home may be particularly stressful to the owner.

Various methods have been used to reunite stray cats with their owners (eg, identification tags and microchips) or to recover cats that have strayed (eg, placing an advertisement in the newspaper, posting signs in the neighborhood, and contacting local animal shelters). However, the effectiveness of these various methods in the recovery of lost cats has not been evaluated. The purposes of the study reported here, therefore, were to characterize the process by which owners search for lost cats and identify factors associated with time to recovery. The present study was performed at the same time as a similar study<sup>2</sup> of the methods owners use to search for lost dogs.

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Supported by the Kenneth A. Scott Charitable Trust, a KeyBank

Presented in part at the Conference of Research Workers in Animal Diseases Annual Meeting, St Louis, December 2005. Address correspondence to Dr. Lord.

#### **Materials and Methods**

Location of study—The study was conducted in Montgomery County, Ohio, in 2005. At the time of the study, the county had approximately 550,000 residents, of which 160,000 resided in the city of Dayton, and a single major newspaper, the Dayton Daily News. The state of Ohio did not have any laws governing the control of cats at the time of the study, although individual municipalities did have the power to establish their own laws regarding cats. Five of the local municipalities in Montgomery County at the time of the study contracted with the county dog warden agency to handle stray cats in the municipality. Minimum holding period specified by most of the municipalities was 3 days. Two nonprofit humane societies in the county also handled stray and owner-surrendered cats. Together, the Montgomery County dog warden agency and 2 humane societies handled approximately 6,500 cats in 2005. All 3 agencies scanned incoming cats for microchips and implanted microchips in cats adopted from

Study population, sampling frame, and study design—The general methods of the study were similar Dayton Daily News or through contact with 1 of the

to those described for a parallel study involving lost dogs.2 The study population consisted of a cohort of cats that had been identified as missing by their owners through placement of an advertisement in the lost-and-found portion of the classified section in the This was in 2007

#### Search and identification methods that owners use to find a lost dog

Linda K. Lord, DVM, PhD; Thomas E. Wittum, PhD; Amy K. Ferketich, PhD; Julie A. Funk, DVM, PhD; Päivi J. Rajala-Schultz, DVM, PhD

Objective—To characterize the process by which owners search for lost dogs and identify

Design-Cross-sectional study

Sample Population-Owners of 187 dogs lost in Montgomery County, Ohio, between June 1 and September 30, 2005.

Procedures—A telephone survey was conducted.

Results—132 of the 187 (71%) dogs were recovered; median time to recovery was 2 days (range, 0.5 to 21 days). Dogs were recovered primarily through a call or visit to an animal agency (46 [34.8%]), a dog license tag (24 [18.2%]), and posting of neighborhood signs (20 [15.2%]). Eighty-nine (48%) dogs had some type of identification at the time they were lost (ie, identification tag, dog license tag, rabies tag, or microchip). Owners had a higher likelihood of recovery when they called an animal agency (hazard ratio, 2.1), visited an animal agency (1.8), and posted neighborhood signs. Dogs that were wearing a dog license tag also had a higher likelihood of recovery (hazard ratio, 1.6). Owners were less likely to recover their dogs if they believed their dogs were stolen (hazard ratio, 0.3).

Conclusions and Clinical Relevance—Results suggest that various factors are associated with the likelihood that owners will recover a lost dog. Both animal agencies and veterinar ians can play a role in educating dog owners on the importance of identification tags, licensing, and microchips and can help to emphasize the importance of having a search plan in case a dog is lost. (J Am Vet Med Assoc 2007;230:211–216)

Dogs and cats are enormously popular as companion animals in the United States. In 2002, it was estimated that 36% of American households owned dogs and 32% of American households owned cats. Not only are dogs and cats popular, but their owners consider them part of the family. In the 2004 American Animal Hospital Association Pet Survey, 50% of respondents indicated they would choose a dog or cat as their sole companion if stranded on a desert island, and 56% said they would be very likely to risk their lives to save their pets.2

A pet that strays from its home can be at serious risk for starvation, injury, or death. Also, given the strength of the human-animal bond and the emotional attachment that many owners have to their pets, having a pet stray from its home can be traumatic and distress ing for the owner. Thus, veterinarians may provide a benefit to both their patients and their clients by counseling pet owners on methods to prevent lost pets and effective means to ensure the rapid recovery of pets that do become lost. Traditionally, owners have identified

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Address correspondence to Dr. Lord.

their pets with tags on the pets' collars and have placed advertisements in newspapers or searched local animal shelters to recover lost pets. Newer technology has led to the use of implanted microchip identification methods and Web sites devoted to finding and returning lost pets to their owners. However, the effectiveness of the various methods available for recovering lost pets has not been reported. The purposes of the study reported here were to characterize the process by which owners search for lost dogs and identify factors associated with time to recovery of lost dogs.

#### Materials and Methods

Location of study-The study was conducted in Montgomery County, Ohio, during 2005. At the time of the study, the county had approximately 550,000 residents,3 of which 160,000 resided in the city of Dayton,4 and a single major newspaper, the Dayton Daily News. At that time, each county in Ohio had a primary dog warden who was responsible for handling stray dogs, and dogs were required to wear a county dog license tag. The license tag had a number by which the county dog warden could identify the owner of the dog, and the county dog warden was required to hold all unlicensed stray dogs for 3 days and all licensed stray dogs for 14 days. Three major animal care and control agencies operated in Montgomery County at the time of the study: a dog warden agency that handled all stray dogs for the county as well as stray cats for some city municipalities, and 2 nonprofit humane societies that handled cats and owner-surrendered dogs and received reports

JAVMA, Vol 230, No. 2, January 15, 2007

Scientific Reports: Original Study 211

ΙΔVMA Vol 230 No. 2 January 15, 2007

Scientific Reports: Original Study 217

Supported by the Kenneth A. Scott Charitable Trust, a KevBank Presented in part at the Conference of Research Workers in Animal

Diseases Annual Meeting, St Louis, December 2005.

## 2012 survey

- Random digit dialed national survey of > 1,000 households
- 15% of households had lost a cat
- Of those, 75% were found
  - 1/54 by visit to shelter
  - 48/54 by returning on their own or searching neighborhood

Animals 2012, 2, 301-315; doi:10.3390/ani2020301



www.mdpi.com/journal/animals

Article

#### Frequency of Lost Dogs and Cats in the United States and the Methods Used to Locate Them

Emily Weiss <sup>1</sup>, Margaret Slater <sup>2</sup>,\* and Linda Lord <sup>3</sup>

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## Consistent results

#### **Search Methods Used to Locate Missing Cats and Locations Where Missing Cats Are Found**

Liyan Huang 1, Marcia Coradini 1,\*, Jacquie Rand 1,2, John Morton 3, Kat Albrecht 4, Brigid Wasson 4 and Danielle Robertson 4

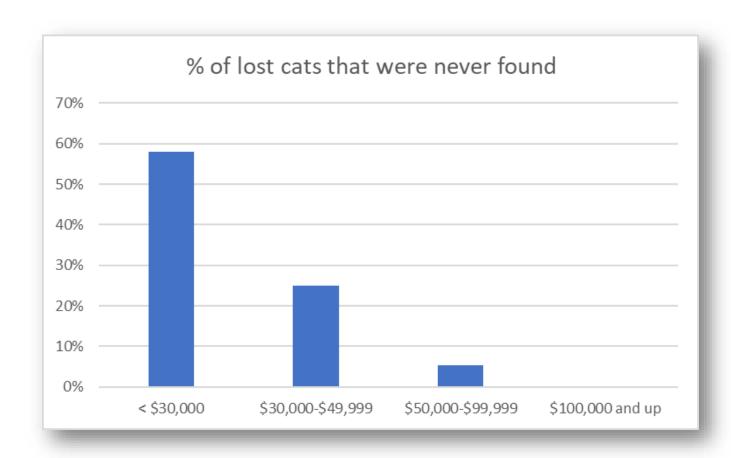
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- Australian Pet Welfare Foundation, Kenmore, Queensland 4069, Australia; jacquie@pe
- Jemora Pty Ltd., Geelong, Victoria 3220, Australia, john.morton@optusnet.com.au
- Missing Pet Partnership, Cloverdale, CA 6105, USA; info@katalbrecht.com (K.A.); bwasson@missingpetpartnership.org (B.W.); danielle@lostpetresearch.com (D.R.)
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"Of the cats that were found alive, the vast majority were found outside (83%). This was followed by the option offered as 'cat being found inside someone else's house' (11%), inside the house where they lived (4%), and inside a public building (2%), therefore less than 2% of found cats were in a shelter or municipal animal

facility."

## Uneven impact



## Return to Field Owner

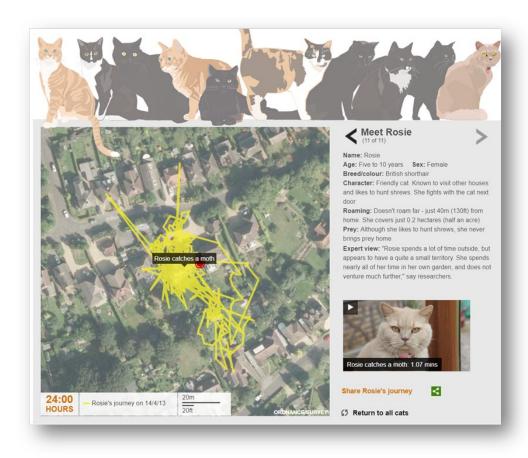
- Return to field for friendly healthy lost cats can bypass the mismatch in timing, search methods, transport barriers and cultural expectations that prevent lost cats from getting reclaimed from shelters
- Spay/neuter/vaccination improves cat health and decreases roaming for cats whose owners might not have the wherewithal to bring them in for those services



## Another difference between cats and dogs



https://www.dailymail.co.uk/sciencetech/article-2340714/The-Secret-Life-Cat-What-mischievous-moggies-gets-owners-backs.html



## Not all who wander are lost





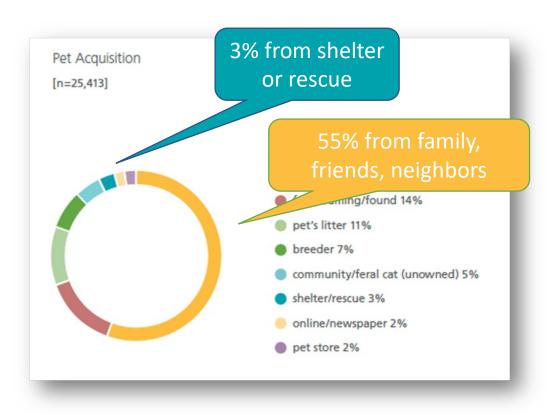
## Uneven impact

- 1 in 6 people in America live in poverty
- 1 in 5 people in America speak a language other than English at home
- Cultural norms and expectations as well as access to services can vary
- > 90% of people in underserved communities have never been to a shelter at all



## Theory

- Most pets in disadvantaged communities adopted from a source other than a shelter
- Return to field for friendly, healthy pet cats can close the loop on sterilization and vaccination for cats already "adopted" from another source
- Open doors for further education and risk mitigation



**HSUS Pets for Life Report 2014** 

#### Practice

"Star is the light of Mayra's life. The snowy-white cat has lived more than 10 years in her Texas home, but one day someone in the neighborhood saw Star outside, scooped her up and brought her to the nearest shelter."



# Saving cats at Palm Valley Animal Society in Texas

By Christelle Del Prete | February 17, 2020

Star is the light of Mayra's life. The snowy-white cat has lived more than 10 years in her Texas home, but one day someone in the neighborhood saw Star outside, scooped her up and brought her to the nearest shelter. Not only was it scary for sweet Star, but it could have

"Prior to the CCP,
Star would have
joined hundreds
of other cats
sitting in cages at
the shelter,
waiting for her
family to find her.
If she wasn't
picked up, she'd
be put up for
adoption..."

#### Return to <del>Field</del> Home

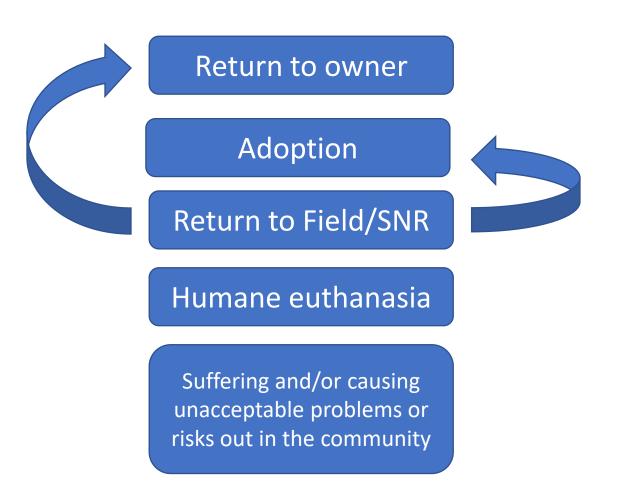
"Instead, thanks to the community cat program, Star was examined by veterinary staff, vaccinated and spayed. After recovering from surgery overnight and the next day, Sarah and Marla loaded Star into the CCP van and returned her back to the address where she was originally found.



"That's when Mayra found out that Star wasn't gone for good, but she was right there and happy to be home. Bursting into tears when Star was handed to her, Mayra was not only overjoyed to have her 11-year-old cat back safe at home, but she wanted to help other cats."

## New understanding





## Bonus result of robust RTF/TNR diversion

- No statewide requirement for healthy cat intake
- California cat stray holding law states "no cat shall be killed before 72 hours"
- RTF/TNR diversion can minimize time in shelter
- Lower density = less staffing needs, better housing for all, lower disease risks, lower costs, better odds for those that do come in



## Now more than ever

- Cases reported in cats, lions and tigers from asymptomatic/unknown exposure
- Viral shedding and cat to cat transmission documented in high dose/close contact context
- Crowded conditions and high levels of respiratory symptoms will tend to amplify potential for any pathogen to spread
- Let's not give this badly behaving virus another opportunity to behave badly!

# STUDY CONFIRMS CATS CAN BECOME INFECTED WITH AND MAY TRANSMIT COVID-19 TO OTHER CATS

Posted on May 13, 2020









In a study published today (May 13, 2020) in the New England Journal of Medicine, scientists in the U.S. and Japan report that in the laboratory, cats can readily become infected with SARS-CoV-2, the virus that causes COVID-19, and may be able to pass the virus to other cats.

Professor of Pathobiological Sciences at the University of Wisconsin School of Veterinary Medicine <u>Yoshihiro Kawaoka</u> led the study, in which researchers administered to three cats SARS-CoV-2 isolated from a human patient. The following day, the researchers swabbed the nasal passages of the cats and were able to detect the virus in two of the animals. Within three days, they detected the virus in all of the cats.

## Two main lanes of the cat superhighway

- TNR diversion or RTF for most healthy unowned cats<sup>1</sup>
  - Healthy feral cats to stabilize populations in the community and limit euthanasia at the shelter
  - Healthy friendly stray/free roaming cats to maximize spayed/neutered/vaccinated cats reunited with their families
  - As an avenue to open doors with community members who would not otherwise go to the shelter

- Shelter pathway for pet cats and social kittens needing new homes<sup>1</sup> and:
  - Unhealthy stray/free roaming cats (sick/injured/poor body condition)
  - Cruelty, abuse and neglect cases
  - Interventions for significant nuisance situations/public health or wildlife risk
  - As an avenue to open doors with community members and encourage engagement with the shelter

<sup>&</sup>lt;sup>1</sup> Ideally bypassing the shelter or with minimal length of stay

<sup>&</sup>lt;sup>1</sup>When pet safety net/home to home options are not appropriate

# I wonder what's next that I will learn to think differently about?



#### Community service vs enforcement

There's been an increase in civilian anti-violence work, "whether it's violence interrupters, or street interventionists, or gang outreach workers," says Jannetta. "There is this increasing field of people and they're out doing public safety work.

They're preventing retaliation. They're intervening in conflicts to tamp them down. Sometimes thou're going out and

them on a different trajectory." had also started to provide some evidence of what less police

engaging with people that they kn It's a difficult time to increase funding for these programs, as cities risk of shooting and being shot, an reeling from the COVID-19 pandemic have budget shortfalls. rapport, and then trying to perhap There's a chance, instead, that some of the programs may be cut, get them involved in services or o while police departments remain largely intact. But the pandemic

#### Not just a cat thing

The Role of Dog Population Management in Rabies Elimination—A Review of Current Approaches and Future Opportunities



lso aim to reduce dog population size. In theory, DPM eoretically reduce dog population turnover and s However, it is important to understand local dog po whether and how DPM might contribute to rabies there is very limited evidence of DPM tools achievin endemic areas. Different DPM tools are frequently used t essments of DPM programs are not usually available

#### Mass Dog Culling is Not an Effective DPM Tool

Mass dog culling is still used as a misguided emergency response to rabies outbreaks, based on the mistaken belief that reducing the size of dog populations will reduce rabies transmission (38). In fact, mass dog culling has been shown to have no long-term impact on the control of rabies within cities (36, 39, 40) or across countries such as Ecuador, Indonesia and Bangladesh (19, 41-43). When modeled in realistic scenarios, culling is not as effective as sterilization programs at reducing population size in the long term (44). This is because culling does not address the source of new or replacement animals, and has only a temporary effect on population size. Furthermore, rapid dog replacement rates have been documented in some areas following culling, leading to a younger population of generally rabies-susceptible dogs (45, 46).

# Yes, BUT...