In order to solve a flea infestation, you must understand the flea cycle. Less than 5% reside on your pet; the rest are in different stages spread throughout your home.

	eggs: 50%		larvae: 35%	6 pupae: 10%		"red dirt"		
	an adult flor son lay 50) aggs a day		hard shell that pesticides do	5%	adult feces;		
	an adult flea can lay 50			not penetrate		larval food		
Mechanical / Cleaning Controls								
(Effective throughout the flea cycle, minimizing the environmental reservoirs lurking throughout the home.)								
Thoroughly vacuum floors, carpets, rugs, and								
under furniture. If infested, vacuum frequently;	✓	NOTE: If topicals	or 🗸	✓	✓	✓		
the vibration encourages cocooning adults to		collars are used ir						
emerge from their protective pupa shell.		the home, then th						
Vacuum upolstery and under cushions.	✓	otherwise non-tox		✓	✓	√		
Proper disposal of vacuum waste to prevent it	✓	cleaning efforts a	V	✓	✓	✓		
from becoming a source of reinfestation.		expected to trans						
Wash pet bedding. Wash other areas pets have	✓	the active ingredi	√	✓	✓	✓		
access to, such as human bedding. Improve effectiveness of vacuuming and dusting		around the home wash it into the	ana					
by reducing clutter and/or replacing carpets	✓	sanitary sewer.	1	√	√			
with hard floors.	'	sameary sewer.			Ť	· ·		
Wash pet.					✓	✓		
Flea comb and bowl of soapy water (also helps					•	· ·		
define the infestation).					✓	✓		
Flea trap (also helps define the infestation).					√			
ORAL MEDICATIONS FOR YOUR PET								
(To avoid impact to POTW, do NOT flush pet waste. Path to storm drains limited to pet waste on impervious surfaces.)								
Afoxolaner	рот пасто на того				✓ /			
Fluralaner					√			
Lufenuron	✓		✓					
Nitenpyram					only 24			
Sarolaner					hours ✓			
Spinosad					√			
SPOT TREATMENTS								
(Spot treatments have been found to wash off with shampooing, wipe off onto gloves and shirts and transport around the home creating pathways to humans and sanitary sewer. If wipe off in yards/grasses, may also have pathway to pollinators.)								
Etofenprox/Cyphenothrin and pyriproxyfen	sewer in wipe on in yards/	grasses, may also	nave patriway	to politilators.)	✓			
Fipronil (with or without cyphenothrin)	V		· ·		✓			
Fipronil and S-methoprene (+/- pyriproxyfen)	✓		√		√			
Imidacloprid	<u> </u>		some activit	N/	✓			
Imidocloprid and pyriproxyfen	some activity ✓		Some activit	У	✓ ✓			
Indoxacarb	some activity		some activit	V	✓ ✓			
Indoxacarb and permethrin	some activity		some activit		✓			
Selamectin	some activity		some activit		√			
Spinetoram	Some deline	7	301112 401111	7	✓			
	COLI	LARS						
(Collars have been found to wipe off onto glove	es and shirts and found arou	und the home so h	ave potential p	athways to humans	and to sev	ver. If wipe		
off in yards/grasses, may also have pathway to	pollinators. Collars appear	to have a lower tr	ansport rate to	the skin and may ha	ve higher	percent of		
active ingredient accumulating or	n hair, dander, and surroun	ding environment.	. Pet may be ex	cposed to high initial	dose.)			
Deltamethrin					✓			
Imidacloprid + flumethrin					✓			
S-Methoprene + tetrachlorvinphos (TCVP)	✓		✓		✓			
Tetrachlorvinphos (TCVP)					✓			
Notes:		i	Legend:					
EPA is currently (2016) evaluating the human		l N	_	d to water quality (\M	O), human			
xposure to TCVP due to flea control collars.			No known hazard to water quality (WQ), human health or pet:					
DPR is currently (2016) evaluating fipronil due to			Likely low hazard to WQ, human health or pet:					
potenial human health concerns.			Uncertain hazard to WQ, human health or pet:					
Fable last updated October 3, 2016 Hazard to WQ and/or human health:								
Tidzard to WQ dirdyor frantar fredicti.								

	Example Product Names					
		(Necessarily incomplete. When patents expire, numerous brands possible. Also a manufacturer may register multiple brand names with same active ingredients.)				
	Active Ingredient(s)					
Orals	Afoxolaner	Nexgard (Merial)				
	Fluralaner	Bravecto (Merck)				
	Lufenuron	Program (Novartis) and Sentinel (though that also includes a				
		heartworm pharma)				
	Nitenpyram	Capstar (Novartis), Capguard (Sentry)				
	Sarolaner	Simparica (Zoetis, a subsidiary of Pfizer)				
	Spinosad	Comfortis and Trifexis (Elanco)				
Spots	Cyphenothrin and pyriproxyfen (Nylar)	Sentry Pro XFT, Triforce for dogs				
	Etofenprox and pyriproxyfen (Nylar)	Triforce for cats				
	Fipronil	Frontline, PetArmor, Fiproguard (Sentry), EasySpot, Certifect, Spec Sure, Effipro (Virbac), Flea3X, Sergeant's Pronyl, Hartz First Defens Barricade, Fortress, Cat MD, Dog MD (and others). (Frontline pate expired around 2012)				
	Fipronil and cyphenothrin	Fiproguard Max, Martin's Prefurred Plus				
	Fipronil and S-methoprene	Frontline Plus, Fiproguard Plus (Sentry)				
	Fipronil and S-methoprene and pyriproxyfen	Frontline Gold (new in 2016)				
	Imidacloprid	Advantage (Bayer)				
	Imidocloprid and pyriproxyfen (Nylar)	Advantage II (Bayer) and Advecta II (Bayer), K9 Advantix (Bayer)				
	Indoxacarb	Activyl (Merck)				
	Indoxacarb and permethrin	Activyl Tick Plus for Dogs (Merck)				
	Selamectin	Revolution (Zoetis, a subsidiary of Pfizer)				
	Spinetoram	Cheristin (formerly Assurity) (Elanco)				
Collars	Deltamethrin	Salvo, SCALIBOR, BandGuard, Sentry Long Lasting				
	Imidacloprid and flumethrin	Seresto (Bayer)				
	S-Methoprene + tetrachlorvinphos (TCVP)	Hartz Ultraguard Plus, Biospot Active Care (Wellmark/ Farnam)				
	Tetrachlorvinphos (TCVP)	Hartz Ultraguard, Zodiac (Wellmark), and others				