

SPAY NEUTER IMPACT CALCULATIONS --- DOES NOT TAKE INTO ACCOUNT ATTRITION FOR LITTERS BORN IN NON-IDEAL CONDITIONS

These calculations use average litter size and average number of litters for the species.

They calculate only the FIRST year of offspring, not any subsequent years - so they are conservative (because more would likely be born in the future)

They do not take into account attrition for litters born into difficult conditions outdoors. This is assumed by our cutting off the impact at one year. Many cats and dogs in the wild perish after a year or 2.

It is assumed that all the intact females would get pregnant and bear the average numbers of litters per year, and the average number of offspring per litter, for their species.

It is assumed that 20% of intact males would find another female to impregnate and thus be responsible for another female's offspring. This is in addition to females we are spaying.

It is assumed that the first litter of the year adds to the number of animals who can reproduce in that year, and creates one more litter. (e.g., females of spring litter become able to reproduce in the fall)

When assuming impact of a dollar amount: Assume 50% cats, 50% dogs, 50% male, 50% female

Dogs

Litters per year	2	
Number of puppies/litter	6	Average - depends on breed, health, and so on
Puppies produced by original dog, first year	12	
Number of females/first litter	3	Assumes 50%
Number of litters from females first litter in first year	3	
Puppies produced by offspring of original dog, first year	18	
Total puppies and grandpuppies, year 1, each female	30	

Cats

Litters per year	3	
Number of kittens/litter	4	Average - depends on breed, health, and so on.
Kittens produced by original cat, first year	12	
Number of females/first litter	2	Assumes 50%
Number of litters from females in first litter	2	
Kittens produced by offspring of original cat in first year	8	
Total Kittens and Grandkittens of original cat, first year	20	
Cost of Surgery for BCAS Helpers on Average	\$85	
Surgeries per \$1000/donation	11.00	