total U.S. female dog population (source: APPA surveys) 35 million

3.4% lifetime incidence of mammary tumors (source: Kustritz)

50.9% of these are malignant (source: Kustritz)

77% of these are metastatic (source: Kustritz)

annual mammary cancer deaths if life expectancy is 10 years (source: New/Kelch) 46,640 vs. 233

annual mammary cancer deaths if spayed before first heat (0.005%) (source: Dorn)

lives saved per year from mammary gland cancer* 46,407

(*if all dogs were spayed before their first heat, compared to being spayed afterwards or not at all)