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CAWS Programme 2010-11
Cost-benefit Case Study for Bathurst Regional Council

Final report

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Executive Summary

- This document provides a cost-benefit case study of the Community Animal Welfare Scheme (CAWS)
 programme in Bathurst Regional Council (BRC). The CAWS programme has been in operation since 2003.
- The CAWS programme addresses the issue of Unwanted Companion Animals (UCA) and their impacts on animal and human welfare. The programme aims to reduce the number of dogs being euthanised in rural pounds and shelters. As well as decreasing human health and safety issues associated with large numbers of roaming stray dogs. As part of the programme, all dogs are microchipped and vaccinated.
- Deloitte has undertaken a cost-benefit case study based on data provided by RSPCA NSW, Department of Local Government website (www.dlg.nsw.gov.au) for companion animal statistics, and an interview with Margaret Gaal at BRC.
- The BRC case study shows that by investing in a targeted subsidised, and means-tested de-sexing and education programme, the Council has achieved an estimated net annual financial return of \$31,484 on top of other tangible and intangible social benefits.
- The financial benefits from the programme include reduced impounding and re-homing costs, decreased council administrative costs and improved council staff utilisation.
- Non-financial benefits include a 36% reduction in number of dogs impounded and a 51% reduction in number
 of dogs euthanised in the BRC area, together with increased community awareness of animal safety and
 ownership, improved animal health, reduced staff exposure to stress, and improved community perception of
 the council.
- These findings support a case for further roll-out of similar programmes within other councils.

Introduction and Context

- that by investing in a targeted subsidised and means-tested de-sexing and education programme, BRC programme in BRC comparing the 2003/2004 period to the 2010/2011 period. The intent was to show had saved money and achieved other tangible and intangible social benefits. RSPCA NSW approached Deloitte seeking delivery of a cost-benefit case study of the CAWS
- programme to other council areas The outcomes of this case study will be used by RSPCA NSW to promote the expansion of the
- since 2003 area. BRC currently funds two CAWS programmes per year, and has been running the programme The scope of the cost-benefit case study covers the experience of the CAWS programme in the BRC
- benefit case study of the CAWS programme in BRC The purpose of this document is to outline the framework, methodology and findings from the cost-

Objectives

Deloitte has carried out this cost-benefit case study on Bathurst Regional Council to:

- Provide an external, independent analysis of the costs and benefits, both quantified and intangible, of the CAWS programme in BRC
- Act as attachments to additional councils, notably those within Western Sydney, in support of future co-funding via DLG submissions
- Compare the results within BRC to councils without a CAWS programme
- Build up source data over time that reflects the 'pace of change'

Background

Bathurst Regional Council

- Bathurst is located on the Macquarie River 207 km west of Sydney via the Great Western Highway and 670 m above sea-level.
- BRC covers an area of approximately 3,818 square kilometres and has an estimated resident population of 38,326 persons, while the resident population of Bathurst itself was 33,793[†] persons as of 2009.
- The Bathurst Regional median individual income is \$424 per week, which is slightly lower than the NSW average of \$461.
- There is one dog pound and four vets / veterinary hospitals in operation in the BRC area.

CAWS programme at BRC

- Bathurst has been running the CAWS programme since 2003, with the first programme targeted in the lower socio-economic area of Kelso.
- It is estimated that over one thousand dogs and cats have been desexed since 2004, and the programme has proven to be very popular among residents.
- Since 2006, Bathurst has run two programmes per year with an estimated \$10,000 of funding per programme.
- Now in its seventh year, CAWS is supported by RSPCA NSW, BRC and Bathurst Veterinarians. Assistance for the programme also comes from volunteers of the RSPCA Bathurst Branch.
- The programme involve schools education, public awareness through media releases, as well as targeted desexing/vaccination and microchipping for approximately 120 animals.
- The vet surgeries involved in the programme are Stewart St Veterinary Hospital, Bathurst Veterinary Hospital, Dr Tom's Veterinary Practice and Durham Street Veterinary Practice.
- The Australian Veterinary Association (AVA) has been involved in supporting the initial programmes via support for the school education component.

Approach

CAWS Cost-Benefit Case Study approach

Todair o	Acquire	Understand &
	Structure	Prepare &
	Interpret	Validate &
, indiamonia	Implement	Report &

Gather data from relevant sources

- Interview with Margaret Gaal from BRC
- statistics gathered from papers, reports and websites provided by RSPCA NSW and its affliates
- Information gathered from external sources to gain estimates of costs and statistics

Prepare a cost-benefit model to structure the information gathered

 Data gathered is structured based on the benefits evaluation framework

sources

- benefits identified with relevant sources

 Validate and confirm estimated figures with relevant
- Confirm information and statistics within the cost-benefit model

Finalise report of findings

Validate figures and

Provide finalised report of evaluated benefits of the CAWS programme

Benefits Evaluation Framework

Summary of BRC Case Study

Financial

Non-financial

Quantified

Financial impact is clearly identified and measurable

- Reduced UCA handling costs
- Reduced council administrative costs
- Reduced re-homing costs
- Reduction in litigation costs

Non-financial but has a measurable impact

- Decreased UCA incidents
- Reduction in number of UCA impounded
- Reduction in number of UCA euthanised

Financial impact that cannot be accurately estimated

- Improved council staff utilisation
- Supports sustainable veterinary capacity in a rural town

Unquantified

- Improved animal tracking
- Opportunity for increased revenue from registration of microchipped animals

Non-financial benefits difficult to measure

- Improved education & awareness
- Improved health of animals
- Reduction in health issues caused by UCAs
- Reduction in staff exposure to stress
- Potential return by CAWS participants to use veterinary services
- Improved perception of council

Financial - Quantified

Before CAWS

Total Monetary Costs	Litigation costs involving UCA incidents 10	Court costs dealing with unpaid fines ¹	Litigation costs	Re-homing costs ⁸	Carcass disposal ⁹	Euthanasia cost ^{1,6,7,8}	Council administrative costs	Stray animal recovery ^{5,20}	Waste Costs ¹	Heating and Electricity ^{3,4}	Water Costs ²	Disinfectant ¹	Food ¹	Maintenance ²⁰	UCA handling/impounding costs	Factor
\$123,487	\$700	\$1,400		\$2,210	\$4,648	\$9,982		\$21,018	\$10,400	\$2,500	\$700	\$7,200	\$689	\$62,040		Annual Amount

After CAWS



	\$31,484	Net Financial Benefit	
\$14,616		Net CAWS investment	
\$77,387	-\$46,100	Total Monetary Value	
\$350	-\$350	Reduction in litigation costs involving UCA incidents	\$123,487
\$700	-\$700	Reduction in court costs dealing with unpaid pound fines	\$1,400
		Reduction in litigation costs	
\$2,258	\$48	Re-homing costs*	\$2,210
\$1,560	-\$3,088	Reduced need for carcass disposal	\$4,648
\$4,858	-\$5,124	Reduced euthanasia rate	\$9,982
		Reduced council administrative costs ^{1,7,9,11}	
\$14,027	-\$6,991	Stray animal recovery trips decreased	\$21,018
\$5,200	-\$5,200	Reduced waste	\$10,400
\$2,055	-\$445	Reduced heating and electricity costs	\$2,500
\$575	-\$125	Reduced water costs	\$700
\$5,400	-\$1,800	Reduced disinfectant requirements	\$7,200
\$444	-\$245	Reduced food requirements	\$689
\$39,960	-\$22,080	Reduced maintenance requirements	\$62,040
		Reduced UCA handling costs ^{1,11}	
Annual Amount	Change in Amount	Benefits due to CAWS	Annual Amount

^{*} Bathurst Regional Council has recently begun the active re-homing of dogs. This has resulted in an increase in the cost of re-homing a dog when compared to the 2003/04 period. (Source: Anna Stapleton, BRC).

Non-Financial - Quantified



Benefits of the CAWS Programme	Reduction in Units	Avg Units Before	Avg Units After	Unit	% Change
Number of UCAs impounded/euthanised					
Reduction in number of dogs impounded	-368	1034	666	Dogs Impounded/Year	-36%
Reduction in number of dogs euthanised once impounded	-366	713	347	Dogs Euthanised/Year	-51%

UCA incidents: In addition to the above, another non-financial, quantified benefit was found to be a reduction in the number of

- the number of car accidents involving strays or UCAs1 decreased by 40%
- de-sexed^{13,14} the number of reported dog attack incidents decreased by 3% based on reduced aggression of dogs that are

Key Assumptions

- For comparison purposes, the model draws data from the 2003 to 2011 period and where possible is specific to the Bathurst programme for dogs only was calculated as \$14,616 per year²¹ Regional area. It uses annualised costs and is based on two CAWS programmes run per year. The average cost to run the
- performance, the data was averaged over the two years prior to introduction of the program me, and the last two available All data regarding the number of dogs impounded, euthanised and de-sexed was sourced from the Bathurst Regiona Council's Survey on the Return of Council Seizures of Cats and Dogs 11. To reduce the effects of annual variation on program
- Wage of staff employed by the pound is estimated at \$30 per hour. This represents a loaded salary which takes into account admin on-costs²⁰
- The following monetary costs were sourced from Margaret Gaal¹, (Bathurst Head Ranger, BRC):
- food, disinfectant, and waste (original costs and estimated reductions)
- euthanising and de-sexing dogs
- Water costs are based on household averages for the Bathurst region². Heating and electricity costs are based on household conservative value is taken to account for fixed costs averages for regional NSW^{3,4}. Reduction estimates are based on the percentage decrease of impounded dogs. A
- Litigation costs are based on information from Margaret Gaal as well as data on dog attacks in NSW 10.
- salary and assume a public service working week of 36.75 hours²⁰ Stray animal recovery – this process is assumed to incur one hour of time by rangers. Ranger wages represent a loaded
- staff wages, savings are based on the reduction in number of dogs euthanised Carcass disposal – an average of 2 trips taken per week, 14 km per trip as estimated by Margaret Gaal9. Costs are based on
- the pound, additional costs are incurred by the council and were provided by Margaret Gaal⁹ Re-homing – estimated to incur 45 minutes worth of labour with an additional \$20 in administration costs. If dogs are sold from

Financial - Unquantified



Benefits of the CAWS Programme

Improved council staff utilisation

Reduction in trips for rangers to investigate feral or missing animals / resolve disputes due to lower UCA numbers/incidents

Reduction in litigation frees up council resources for other matters

Increased retention rate of council staff due to reduced exposure to high euthanasia rates

Reduced staff sick / stress leave taken due to reduced exposure to high euthanasia rates

De-sexing will also prevent puppy litters from being handed in or dealt with by staff

Supports sustainable veterinary capacity in a rural town

Improved ability to build veterinary capacity in areas where it would otherwise struggle to be maintained

Improved animal tracking

Microchipping of animals improves animal tracking and increases success of finding and contacting owners

Improvement in tracing owners results in less time animals spend in the impounding facility

Opportunity for increased revenue from microchipping registrations

Increased number of animals microchipped increases potential revenue due to compulsory registration fees

Non-Financial - Unquantified



Benefits of the CAWS Programme

Improved education & awareness

Increased awareness of basic human safety concepts, such as bite prevention

Promotion of responsible pet ownership:

- Increased awareness of responsible animal ownership, welfare and humane treatment in school children

- Increased community awareness of responsible pet ownership

Improved health of animals

Vaccination of animals (as part of the CAWS programme) reduces their likelihood of illness

Mammary or prostatic disease is prevented by de-sexing, as well as health issues resulting from over breeding

Reduction in health issues caused by UCAs

Reduction in incidence of disease/worms being passed onto humans from UCAs

Reduction in spread of disease from UCAs to other animals

Reduction in staff exposure to stress

Reduction in Council staff stress caused by euthanising animals

Reduction in Council staff exposure to stressful situations involving UCA incidents and neighbourhood dispute resolution

Potential return by CAWS participants to use veterinary services

CAWS encourages/reminds owners to take their animals to the vet

CAWS programme provides vets with an opportunity to proactively check the animals for other health problems

Improved perception of council

Strengthened relationship between council and pet owners as the council is seen to be proactive in assisting local residents

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Findings

- net benefit of \$2 for every \$1 spent investment of approx \$14,616 (2 programmes run per year since 2006/2007). This equates to a 3:1 cost reduction, and provides a The cost-benefit case study shows that the CAWS programme run by BRC has delivered \$46,100 in financial benefits at an annual
- Benefits are attributable to the following factors
- \$36,886 due to reduced UCA handling/impounding costs
- \$8,164 due to reduced council administrative costs
- \$1,050 due to reduced litigation costs
- microchipping, and strengthened veterinary capacity Additional financial benefits (unquantified) include savings due to improved staff utilisation, improved animal tracking due to
- The programme has also delivered non-financial benefits including:
- Approx 36% reduction in the number of dogs impounded and 51% reduction in number of dogs euthanised in the BRC area
- Estimated 40% reduction in the number of road accidents involving strays or UCAs
- Reduction in number of dog attacks as de-sexing reduces aggression
- In addition, the programme has delivered qualitative social benefits such as:
- Improved education and awareness regarding animal safety and ownership
- Improved health of animals due to vaccination and de-sexing
- Reduction in staff exposure to stress
- Improved opportunity and frequency of companion animal health check-ups
- Improved community perception of the council
- council has achieved an estimated net annual financial return of \$31,484 on top of other tangible social benefits The BRC case study shows that by investing in a targeted subsidised, and means-tested de-sexing and education programme, the

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