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| **서울2** | **48조** | **서울시** **공공 유기동물 보호소 최적 입지 선정** |

**❑ 과제 개요**

🔾 목 적:

* 동물 복지 및 유기동물 입양 접근성 향상을 위한 서울시 공공 유기동물보호소 최적 입지 선정

🔾 필요성: (정량 지표는 현황조사 자료 참고)

* 서울시는 반려동물 가구 수가 100만가구 이상으로 전국적으로 가장 높으며 유기동물 발생 건수가 경기도 다음으로 가장 많음.

※ (별첨1) 현황조사 자료 figure1 figure2참고

- 동물보호센터의 수용 능력의 한계로 인한 센터 내 유기동물의 과포화 및 과밀화 발생

※ (별첨1) 현황조사 자료 <표1> 참고

* 정부 국정운영 5개년 계획 ‘사람과 동물이 공생하는 국토 환경 조성’ 관련 예산 확대에도 불구하고 동물 보호센터의 시설은 열악한 환경임.

※ 2019년 유실·유기동물 구조·보호 등에 투입된 예산 232억 (2018년에 비해 15.8%, 2015년에 비해서 대략 9배 증가)

* 민간 동물 보호소의 윤리적, 위생적 한계를 해결할 공공 유기동물 보호소 추가 설치가 필요함
* (별첨1) 현황 조사 자료 3. 유기동물보호소 현황 및 실태 참고
* 시설 확충 및 최적 입지 선정을 통한 동물 복지 정책 도입이 필요함

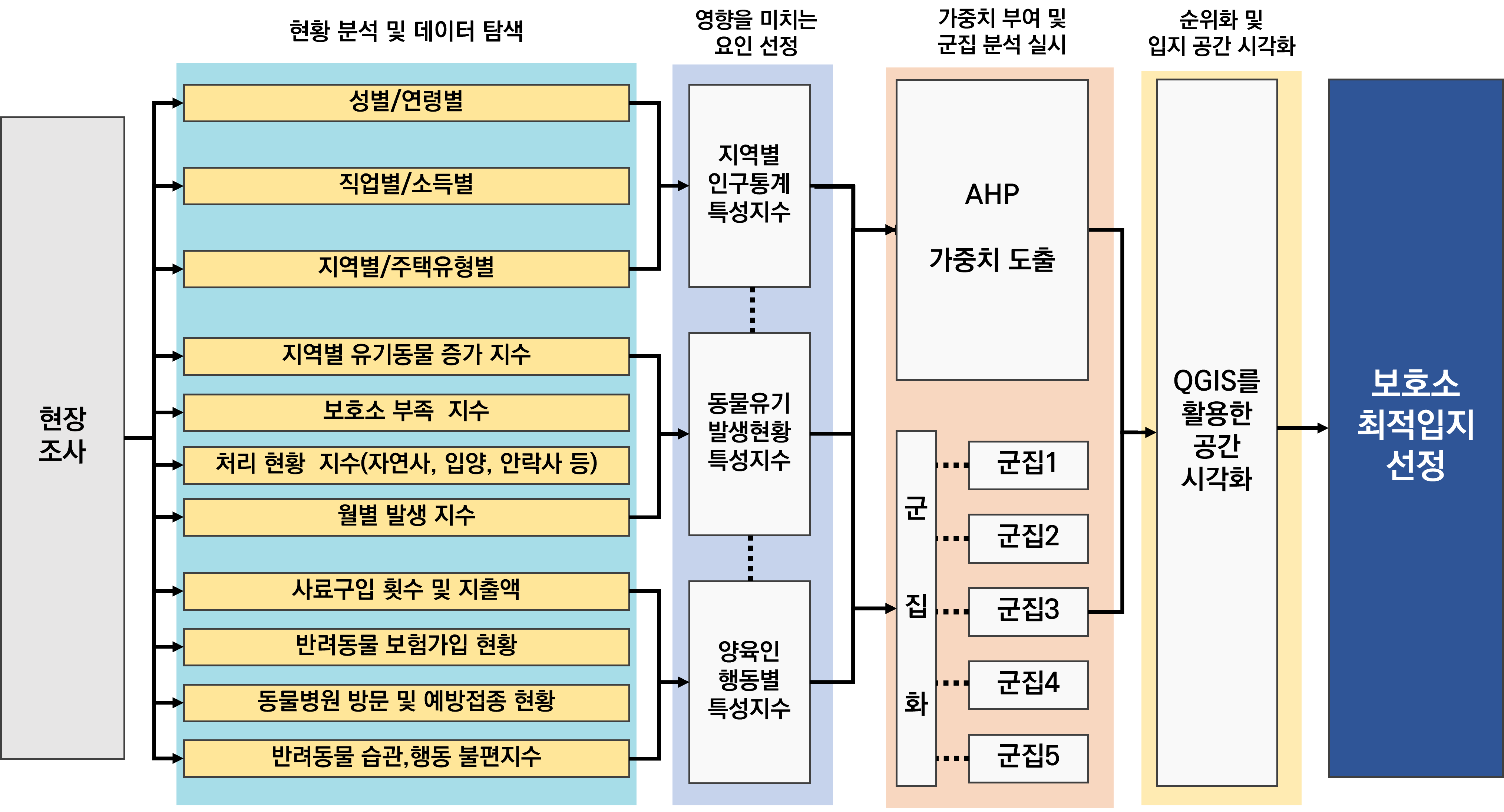
🔾 주요 내용:

* 과거 유기동물 현황 및 입양 사례들을 분석하여 반려동물 유기에 영향을 미치는 요인 파악 및 유기 발생에 대한 탐색적자료분석(EDA) 실시
* 변수 스케일링(Normalizer)을 통한 데이터 전처리 작업
* AHP 분석을 통한 주요 요인의 중요도 산출 및 가중치를 적용한 순위 산정
* 총점 계산 후, 순위화 하여 상위 10개 구 시각화
* 단계 선택과 소거를 반복하는 단계적 선택법을 사용해 중요 변수 선택
* 군집모델을 활용한 순위화 및 상위 10개 구 시각화
* AHP 분석과 군집분석의 결과를 비교하여 유기동물보호소에 최적화된 상위 5개 구 최종 선정

**❑ 활용 데이터** (추가 활용 데이터는 별첨1 참고)

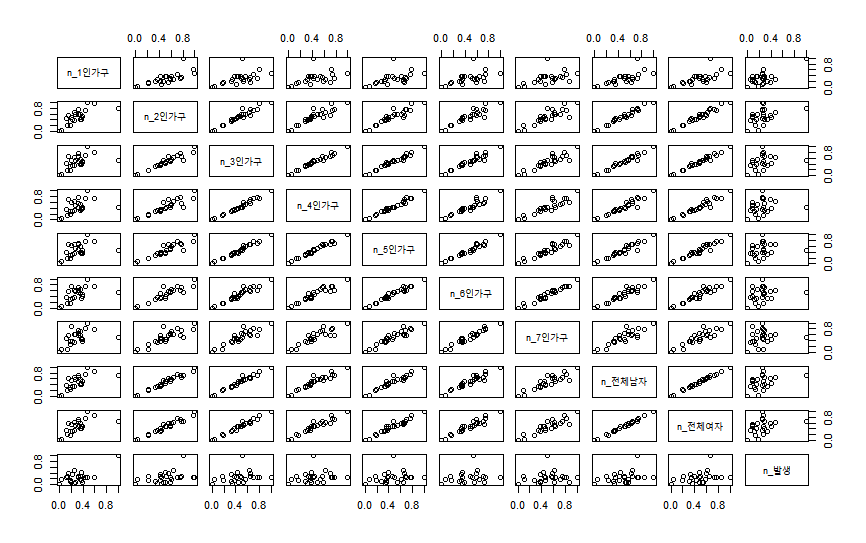
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| **활용 데이터** | **구분** | **중요도** | **생성**  **주기** | **지역**  **속성** | **데이터 소스** |
| 서울시 가구원별 통계 정보 (1인 ~ 7인이상) | 정형/내부 | 필수 | 5년 | 구/동 | * KOSIS 국가통계포털 * 서울시 1인 가구 통계 |
| 유실, 유기동물 분석 보고서 (2016~2020) | 정형/외부 | 필수 | 5년 | 구 | * 동물자유연대 * 전국구 유기동물 발생 및 처리 현황 (월별, 연령별 포함) |
| 서울시 동별 유기동물보호 현황 | 정형/내부 | 필수 | 1년 | 구 | * 서울 열린데이터 광장 * 서울시 유기동물별 보호 현황( 입양, 안락사 등) |

**❑ 유기동물 최적 입지 선정 프로세스**

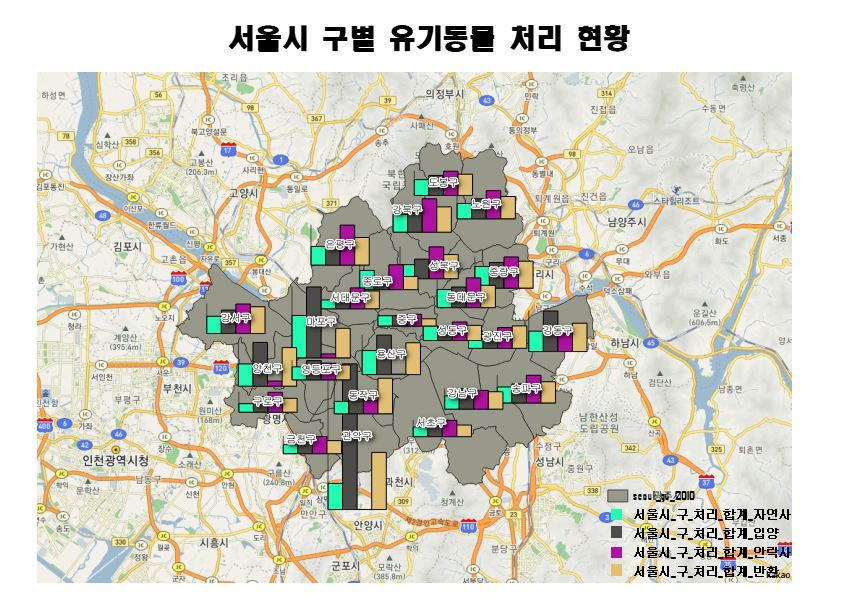


**❑ 빅데이터 융합분석 방법**

🔾 회귀분석 및 공간분석을 통한 최적의 입지 선정 모형 개발



🔾 주요 요인들을 고려하여 입지 점수 산정 후, 보호소 위치 선정 및 시각화

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**❑ 기대효과 및 활용방안**

🔾 (동물 보호) 동물 건강 보호 및 안락사 처리 감소

* 유기동물 보호소 설립을 통한 과포화, 과밀화 문제 해결을 통해 위생 문제 완화 및 동물 복지 실현이 가능할 것으로 기대함.
* 본 분석결과 활용을 통해 유기동물 입양자들의 접근성 및 인식 향상을 도모하고 궁극적으로 유기동물 입양을 장려하여 안락사 감소가 가능할 것을 기대함.

🔾 (비용 절감) 유기동물 관리를 위한 사회적 비용 절감

* 안락사 및 자연사 유기동물 처리를 위한 비용 절감이 예상됨.
* 포획되지 않은 유기동물로 인한 생태계 문제 해결에 대한 사회적 비용 절감이 가능할 것으로 기대함.

🔾 (정책 마련) 동물 보호 정책의 일환으로 지자체 운영 유기동물 보호소 설립 추진 활용

* 최적 입지로 선정된 곳에 유기동물 보호소를 설치하여 동물 보호를 위한 시설 마련이 가능할 것으로 기대함.
* 정부의 국정운영 5개년 계획인 ‘사람과 동물이 공생하는 국토 환경 조성’ 관련 정책의 예산 절약 및 효율적인 도입이 가능할 것으로 기대함.
* 유기동물 보호소를 설립 및 동물 보호 정책을 시행하고자 하는 다른 지역에 본 분석 결과를 활용하여 우선 추진 지역 선택이 가능하며 이는 사회적 비용 절감 효과를 기대할 수 있음.

🔾 (확대 적용) 활용 변수 및 분석 결과를 활용하여 동물 보호를 위한 향후 매뉴얼을 도출함으로써 실질적인 해결책 제시

* 분석 시 사용된 변수들을 활용하여 입양자 선정 기준 마련이 가능할 것이며 이는 반환(파양)비율 감소에 적용이 가능할 것을 기대함.
* 분석 시 사용된 변수들을 활용하여 길고양이 중성화 사업 등 현재 진행되고 있는 동물 보호 정책에 적용이 가능할 것을 기대함.

**(별첨1) 현황조사자료**

**1. 반려동물 인식 및 양육 현황**

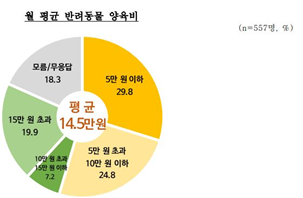
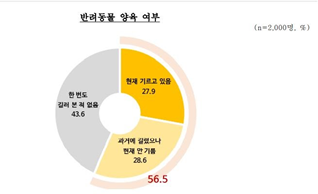
- 「2018년 반려동물에 대한 인식 및 양육 현황 조사 보고서」에 따르면, 반려동물 양육 여부를 물어본 결과, 전체 2,000명 중 56.5%가 반려동물을 길러본 경험이 있다고 응답함.

※ ‘현재 기르고 있다’는 응답은 27.9%, ‘과거에 길렀으나 현재 기르고 있지 않다’는 응답은 28.6%, ‘한 번도 길러 본 적이 없다’는 응답은 43.6%임.

- 「2018년 반려동물에 대한 인식 및 양육 현황 조사 보고서」에 따르면, 반려동물 양육인을 대상으로 월 평균 지출하는 반려동물 양육비를 물어본 결과, 5만 원 이하라는 응답이 29.8%로 가장 많고, 그 다음으로 ‘5만 원 초과 10만 원 이하(24.8%)’ 등의 순임.

- 반려동물 수는 해가 갈수록 증가하고 있는 추세임.

※ 2011년 96,268마리 → 2014년 81,147마리 (소폭 감소) → 2019년 135,791마리 (급증)



**Figure 1**

- 전국 반려 가구 수 그래프

![지도이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzOAAAkpIAAgAAAAMzOAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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H7zUZzp7GKMGJIrkPvb+6cVnX3hJH1SLQ7cyLbyaJPAbhl3fM0qHJPqTk1N4m0bUU8Haikgs5FEB2xW1rhmPGPx+lPpf1/Nh1t/WyOp1LWLbSrJZ7reWkH7uONCzO2OgAqh4Z8SrrdhH9shNpqAj3zW5BwvurdCvuDTtZ0e71GGB7C8kt5UUKQZXVcY9F71z2keHZLPWI9A1BpZbFbLegjnk8vG7bsIY/jQt7C6XLMnxBQ+G9W1K0tGuZLGWeNViGVwhO125GFYYORWnrXiK+0e0nvDpkc9tCiyMwuQrFTgZ249TXJauFlttX3eVbXEReyh0xLbDXEIOFG7GfmHOR0zW9qPhzWNS1iW4c2JtJbVLcQvvzhXLgnB69BQun9dBvr/AF1NjQdd/tibUYmEaPZ3bQBFbJKgDBI/Gsm68W6hb+KodCNrZ+fNE0ik3GAMEYU8cMQSQPY0vhC1ubSPXp7m1RrxtQlP7tSgkGBjBPaqD6PeG8SFfDSnTXiczo1wDI8xZSr7sZyBu/Oj+X0X5C7+r/M6fUNYNhqmk2TxqW1CR4yd33dqFuPXpVNPE4aTxDEwh83SCdkYf5pFEKvkj6tiqknhJ9ZkS+1Kaa2urdQNPVWybMj+LP8AETjnPbipPDdh/wATfxL9uhEjS3aqZGjx5q/Z4wce2c0tXdeT/QasrFX/AITqVo4CumTRGXTJ77M67VJjVCFGDyDuqOL4gvJHcsNJun8nTkvPkj6Fg+QcngfJ1rF1C0tbJ9cNusOnzW0cltbWa2+5riMoOAx5+c8fL04rT8T29vZR6FI+jRXCSL9nuBIGOxAhKqWAPfNN6q6/q9/+AJaNJ/1a3/BNfw74tbX9VNqLRoEWwhuiXUglnZwQPb5etE3iW9ttYt7SW1t3Sa7+ysYpSWjPltICR9APzql4a1JtT8W3oFglrDFp8MaSRhv78ny7iB04496pWUWkW2sar9vudTtp0verSysJsIoD8Ajpx+FEt9PP8xK9n8vyLKePWuPD9pf272X2ia3M0lsd7MCOw2/lzV7RfF8mreIINNa0EJewF1JlssrEj5cduvesRdItNC0XQLlJrjcFFlLdWqMoCEM28rjPVQPxrX0a006TxUl9YX0lw6WjxOJo33sS4OSxA6dMU1v9/wCT/wCAN7af1qv+CT634wj0efWYnRd2nWK3SE5O9mD4UgdB8nX3qpH45kFrHNLYmTzNS+xBIeWx5ZfdgnrxUGueDpF03VtUju5ZtUuLSdZyq8ToYyEjC9gvGPx9ar6B4duNT0+/guJmtoxfM/lyW6vuO1cMNw+o4qY7v0/X/IJdLef5f5nQ2nij7Z4lh0pbC4gEls8++dQv3WUYGCf71OPiMtpevXUcADaS0qAMeJCibqxfBGg3S2dtq09yIbhwyyRi0RCV3HjPUZwDU+t+Gr2DR/EL6bqcqrfxzTNbiBGy5jxtBIzziiWi+T+++n4FR1l8193/AA42Hx002gajqSQwOLS4hgVlfKDesZLMewUuc+wq/pHiKe78QNpc8ljdH7N9oE1i5ZU+bG1sk8nqPoa40aQY/DOtrNbXCobqBGiQsiFWihVnZV+8ByePQ1d8O6JAvieSGC+nuBJaBnvLSZ02bW+VG7H7xI79c1fX+u39P8DNfD/Xc1rjxjeRwXt8iWQtrS6a3Nq7n7Q+19uQM4yeoGORitzxFq1xpHh651G0tkmaGFpCJJdgXCk+nPPauQ0+PQb2NL3U7nUrW/3HejNKWUg467fbrW74nt0tvCSTxLLqBtpI5IxcFpN2XA3MBy20EnHtUP4S18RVs/G876boF3d2caJqsmwmKQyY/dlsgAccjGD0rZvdT1e1E8kWkxSwxBmDm7CllHOcY4rkrSRB4n0oWsVrc+ZcyTMLe3liEb+Uw3ZIwM9PxrXvLbX7zxALuTSE+yNYyWrxi/AJLMDn7vpTld7f1p/mKNlv/Wv+RJd+LL5NN0a+tNPiaHVWiRFkmwyM6lsH16VaXxL5Ws6hp999mgezso7kbpMbiQxb8Bt61Ql8ISa3Fbx6rusbaxRRY20Eu4wyDpKW4yw7D6+tV1024fxBrUd/Z/2k8unW9u7geX5gIkD4Pbg9vWiXW39dgj0uS/8ACcXAmtlW0hnWeeOLEJckBmA3crjAzmma54z1Cw1+6sLKG1KW+0Fp1IJJUNwdwyOazNL0jxTZvpnnRXzrbu5uE/tDKuv8CgY7d6oeIbW1k8RXcX2eSJo9m4SKpBLKG4JByOfzoBHeaRrGoXvhddRuLW3N1lsxRzbUwGIzuOccDNc9pnxBu7nwfDrVzYwqrXcdu3ly7/vSbT8oGQQOfenaTp234aXjy2yyy7JZfIiY7ZdhYopAx1wMgVlyzpI1jKkVpLLcXdr5sEFpNGRhxg5xj5f6U/t281+Yvs39TpPEni640FrSQW9u8F5KkcRklKsNw5YjHAHc10llJPLaI92kaStyRG25fwNclq9jqM18bix0BXmlnUXEs06tvhGQVAI4zxW/oEDWli1uNPawiRjsjMvmcHnj0HtSWw3uatFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAEA9RmgADoMUUUAMaGN2y8asfUqDTgiqu1VAA7AUUUAKAB0FFFFABSMiuuGUMM5wRRRQAtFFFABR160UUAAAHQUxoYnbLxox9SoNFFADgAqgKAAOgFLRRQAEA9RSbF3Bto3AYBx0oooAGRXGHUMPQjNIkaR52Iq564GKKKAHUxoYnbLxox9SoNFFADlUKuFAA9AKWiigAooooAKKKKACiiigBrxpJjeitjpkZoVEQYRVUegGKKKAEjhjiz5UaJnrtUDNPoooAKKKKAGyRRygCVFfByNwzinUUUAFFFFABRRRQAUYGc459aKKAGGKNpBI0alx0YryPxp9FFABRRRQAUUUUAMaKN3DtGrMvRivIp5GetFFAAAB0GKQgHqBRRQAuBjGOKAAOgoooAKKKKACiiigAIBBBGQetMjijiBEUaoDyQq4oooAdtHoPypaKKAEwB0ApaKKACiiigApjRRucvGrH1Kg0UUAOVVRcIoUegGKNo9B+VFFAC0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//Z)

**Figure 2**

**2. 유기동물 현황**

- 동물 자유 연대 「2016-2020 유실유기동물 분석 보고서」에 따르면, 유실·유기동물의 수는 증가하는 추세를 보이고 다양한 동물이 유실, 유기되는 실태이며 특히 개의 경우 하루 평균 200마리 이상이 유실, 유기되고 있음.

- 동물에 따라 계절 변동성이 존재함.

※ 2011년 96,268마리에서 2014년 81,147마리로 감소했으나 이후 급증해 2019년 135,791마리를 기록

※ 개의 유실·유기는 지난 5년간 총 421,610건, 일평균 230.8건 발생함.

※ 개의 7, 8월 발생건의 비중은 9.7%와 9.8%, 일별 발생 건은 262.6건과 267.3건으로 평균 대비 13.8%(31.8건), 15.8%(36.6건) 높으나 전체 발생 건 중 7, 8 월 발생 건에 비해서는 상대적으로 비중이 낮음.

※ 고양이의 경우 발생율이 가장 낮은 2월(3,811건 / 2.7%)에 비해 가장 높은 6월(19,729건 / 13.9%)이 5.2배

- 전국 유기동물 발생 건수는 다음과 같음.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 지역/발생건 | 2016 | 2017 | 2018 | 2019 | 2020 | 합계 |
| 서울 | 8627 | 8588 | 8008 | 7271 | 6183 | 38677 |
| 부산 | 6962 | 7414 | 7493 | 8097 | 7470 | 37436 |
| 대구 | 4003 | 4186 | 4805 | 5469 | 5042 | 23505 |
| 인천 | 5621 | 6074 | 6874 | 6799 | 6646 | 32014 |
| 광주 | 2607 | 3672 | 3248 | 3830 | 3556 | 16913 |
| 대전 | 4011 | 4498 | 5333 | 4846 | 3217 | 21905 |
| 울산 | 3084 | 2885 | 2903 | 3083 | 3334 | 15289 |
| 세종 | 384 | 345 | 404 | 494 | 330 | 1957 |
| 경기 | 21679 | 22917 | 25681 | 27930 | 26931 | 125138 |
| 강원 | 3929 | 4747 | 5312 | 6179 | 5488 | 25655 |
| 충북 | 3836 | 3546 | 3731 | 4905 | 4784 | 20802 |
| 충남 | 4572 | 5646 | 7272 | 8493 | 8852 | 34835 |
| 전북 | 3588 | 4510 | 6024 | 7838 | 8819 | 30779 |
| 전남 | 2752 | 4214 | 5863 | 7704 | 8441 | 28974 |
| 경북 | 3693 | 4861 | 7477 | 9128 | 9638 | 34797 |
| 경남 | 6583 | 7919 | 11383 | 14140 | 13683 | 53708 |
| 제주 | 2626 | 4818 | 6886 | 7307 | 6303 | 27940 |
| 합계 | 88557 | 100840 | 118697 | 133513 | 128717 | 570324 |

**3. 유기동물 보호소 현황 및 실태**

- 농림축산검역본부에 따르면 동물보호센터의 역할은 유실, 유기동물 구조 및 진단, 치료, 안락사이며 보호, 관리 및 입양, 분양을 수행하고 있다. 또한 동물보호 교육 및 홍보도 수행하고 있다.

- 보호소의 기능 구분은 다음과 같다.

|  |  |  |  |
| --- | --- | --- | --- |
| 구분 | | 기능 | 비고 |
| 1차 보호소 | 지정동물병원 | 유기동물 보호 (3일 이내) 진단, 치료 | 각 시도의 유기동물 발생 상황에 따라 1,2차 보호소의 기능 통합가능 |
| 2차 보호소 | 유기동물 전문보호시설 | 상태가 양호한 유기동물의 보호, 입양 |

※ 참고: 농림축산식품부 동물질병관리부 동물보호과

1) 지방자치단체 운영 동물보호센터

- 지방자치단체가 운영하는 동물보호센터 중 직영 동물보호센터가 차지하는 비중이 지나치게 낮음. 민간 위탁보호형의 경우 시,도가 시설의 설치까지 관할 시,군,구에 위임 하면서 경비의 일부를 지원하고 있는데, 시,군,구는 시설건립 예산 및 인력부족, 민원 빈발로 대부분 민간에 위탁하고 있음.

- 2008년과 2017년을 비교했을 때 보호소의 수는 증가하였으나, 민간 위탁보호형의 비중이 전체 약 90%로 여전히 낮은 수준임.

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| --- |
| 2008 년 25개소(6%) →2017년 40개소(13.7%) (민간 위탁보호형의 비중 전체 약 90%) |
| 2014년 약 2만4천마리 (총368개소), 2015년 약2만1천마리(총 307개소) 평균 보호기간,  2014년 20.6 일, 2015년 23.6일 |
| 유기동물 법정 보호기간은 소유권 이전기간인 최소 10일 |

<표1>

- 유기동물 수에 비해 이들을 보호, 조치할 수 있는 동물보호센터의 수용 규모가 부족하여 위생 문제 등 관리의 어려움이 빈번하게 발생함.

- 전체 동물보호센터의 유기동물 일시수용 가능 마리 수와 평균 보호기간을 고려하면, 보호센터는 그 수용능력을 초과함. 전문가들은 현재와 같은 수용 규모로는 유기동물에 대한 적절한 보호 조치에 한계가 있을 것이라고 지적함.

2) 사설 동물 보호시설

- 사설 동물 보호시설에 대한 운영기준 등이 부재함. 사설동물보호시설은 그 운영에 있어 ｢동물보호법｣의 적용 대상이 아니기 때문에 지방자치단체가 운영하는 직영 및 위탁형 동물보호센터에 적용이 되는 보호동물에 대한 인도적 처리, 즉 안락사의 대상, 원칙, 절차 및 방법에 대한 규정이 사설 동물 보호시설에는 적용되지 않음.

- 지난 2019년 3월 농림축산식품부에서 발표한 「사설 동물보호소 실태조사 및 관리 방안 마련 연구 최종보고서」 에 따르면 전국 사설보호소 83곳 중 60곳은 ‘국토의 계획 및 이용에 관한 법률’, ‘수도법’, ‘수질 및 수생태계 보전에 관한 법률’ 등의 법률을 위반함 법률을 위반함.

※ 국내 사설보호소는 총 83개소로 보호하고 있는 동물의 수 총 14,697마리 (2018년 12월 기준)

※ 82개 사설보호소 중 73개 사설보호소(토지정보 파악이 어려운 9곳 제외) 토지정보를 분석한 결과 60개의 사설보호소가 최소 1개 이상의 토지 관련 법률을 위반하면서 운영 중임.

- 현행 동물보호법 15조에 따르면 유기동물의 구조·보호에 관해 동물보호센터를 설치·운영할 수 있는 주체는 시·도지사 또는 시장·군수·구청장과 이들이 지정하는 기관이나 단체에 한정되어 지방자치단체와 무관한 민간인이 운영하는 사설보호소에 대한 규정은 전혀 없음.

3) 시사점

- 일부 보호소에서 파보 등의 감염병이 돌아 죽는 경우가 발생. 유실·유기동물의 경우 길에서의 생활로 감염병에 노출 가능성이 높은 반면 많은 보호소들이 예산과 공간 등의 문제로 새로 입소한 동물을 위한 격리공간을 갖추지 않아 이런 사고들이 반복될 가능성이 있음. 보호소 입소절차 및 위생관리에 대한 정비가 요구됨.

- 따라서 사설 동물 보호시설 관련 제도 도입과 더불어 국가 운영 ‘공공 동물보호센터’의 추가적 설립 추진의 필요성을 시사함.

※ 참고자료: 동물 자유 연대 「2016-2020 유실유기동물 분석 보고서」, 유제범 (경제산업조사실 산업자원팀 입법조사관) <국내 동물보호시설의 운영 현황과 개선방향> 2019.03.06

**5. 유기동물 처리 현황**

-유기동물 중 다른 가정으로 분양되는 동물의 수에 비해 자연사 및 안락사의 비율이 높음.

※ 보호소 내에서 죽음을 맞이하는 비율(자연사 + 안락사)은 2016년 47.3%, 2017년 49.2%, 2018 년 50.2%, 2019년 52.5%로 매년 증가

- 일부 지자체의 경우 노킬(No-Kill) 정책을 펴고 있지만 다수의 지자체의 경우 일정 기간 경과 후 안락사 시행.

※입소 동물 중 21~25% 정도가 안락사(2016-2020) - 안락사 외에도 상해, 질병, 원인미상의 이유로 죽음에 이르는 자연사도 전체 입소 동물의 26~28% 에 달함(2016-2020)

**6. 동물 보호 정책 추진**

1) 동물 등록제 추진

- 동물등록제는 대통령령에서 정하는 “등록 대상 동물” 의 보호와 유기 방지, 유기 또는 유실된 동물 발견 시 소유자 확인 및 소유자의 책임의식 고취 등을 목적으로 도입됨.

- 시∙도지사는 등록대상동물의 보호와 유실·유기방지, 유실·유기된 동물 발견 시 소유자로 하여금 시장∙군수 또는 구청장에게 소유하고 있는 “등록대상동물”을 등록하게 할 수 있음.

- 등록 동물의 범위, 등록방법, 등록사항과 절차 그 밖에 등록에 관하여 필요한 사항은 농림축산식품부령이 정하는 것을 제외하고는 시∙도의 조례를 따름.

2) 서울시 길고양이 중성화 사업 추진

- 서울시 각 자치구에서는 전문기관과 위탁계약을 체결하여 길고양이 중성화사업을 진행함.

- 수술이 필요한 길고양이가 있다면 관할구청으로 길고양이 중성화(TNR)을 신청하고 신청된 길고양이는 포획 후 중성화 시술을 하고 다시 제자리로 방사함.

7. 동물 복지 관련 논란 및 문제점

1) 길고양이 돌봄 논란 (‘캣맘’, ‘캣대디’ 논란)

- 길고양이에게 밥을 주고 돌보는 이른바 ‘캣맘’과 ‘캣대디’는 사회적으로 논란의 대상이 되고 있음.

- 불쌍한 동물을 보살피는 따뜻한 마음의 소유자라는 긍정적 평가가 있는 반면, 길고양이 개체수를 증가시켜 여러 부작용을 일으킨다는 부정적 평가가 공존함.

2) 고통사 논란

- 지자체 동물보호센터에서 보호기간이 끝난 동물들 대부분이 ‘고통사’ 당했다는 조사가 발표됨.

- 동물보호단체 비글구조네트워크에 따르면 안락사 위탁을 받은 동물병원 수의사는 다른 유기견들이 보는 앞에서 유기견을 안락사 해온 것으로 드러남. 이는 동물보호법 제8조 2항 ‘같은 종류의 다른 동물이 보는 앞에서 죽음에 이르는 행위 금지”를 어긴 것임.

- 마취를 하지 않고 호흡 마비를 불러 일으키는 석시콜린(근육이완제)만으로 안락사를 하고 있는 곳도 발견됨. 이는 동물보호법 제 22조 3항 ‘동물의 안락사는 반드시 마취를 한 뒤 심장정지, 호흡마비를 유발하는 약제를 사용해야 한다.’ 를 어긴 것임.

**(별첨2) 분석논리모형 마인드맵**



**(별첨3) 활용 데이터** (인구통계데이터, 유기동물 데이터, 지리 데이터 등을 활용함.)

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| **활용 데이터** | **구분** | **중요도** | **생성**  **주기** | **지역**  **속성** | **데이터 소스** |
| 서울시 반려동물 유무 및 취득 경로 통계 | 정형/내부 | 필수 | 1년 | 구 | * 서울 열린데이터 광장 * 서울시 반려동물 취득 현황 |
| 전국 동물 보호센터 정보 표준 데이터 | 정형/외부 | 선택 | 매월 | 시/군/구 | * 농림축산식품부 농림축산검역본부 * 전국 동물 보호 센터의 위치 및 운영정보 |
| 전국 연령별 인구 통계 | 정형/외부 | 선택 | 매월 | 시/구 | * 행정안전부 * 서울시 구별 인구 수 통계 |
| 전국 행정구역  (시도) | 비정형/외부 | 필수 | 비정기 | 시도 | * 개인블로그(gisdeveloper) * 전국 시/도 파일로, GIS로 활용 가능 |
| 전국 행정구역  (시군구) | 비정형/외부 | 필수 | 비정기 | 시군구 | * 개인블로그(gisdeveloper) * 전국 군/구 파일로, GIS로 활용가능 |
| 전국 행정구역  (읍면동) | 비정형/외부 | 필수 | 비정기 | 읍면동 | * 개인블로그(gisdeveloper) * 전국 읍/면/동이 나타난 파일로, GIS로 활용가능 |
| 서울시 동물 병원 및 보호센터 현황 | 정형/외부 | 필수 | 비정기 | 구 | * 동물보호관리시스템 * 서울시 동물 병원 및 동물보호센터 공간 정보 |