

**ADDENDUM
TO
“A STRATEGIC PLAN TO REDUCE VEHICLE-ANIMAL ACCIDENTS IN NORTHEAST OHIO”**

The information and analysis in this document provides an updated and a closer examination of animal-related accidents on the federal aid system within the NOACA region. The data used covers three years beginning where the “Strategic Plan” left off in 2007 and ending with the latest data set in 2009. Graphic illustration of accident data will appear in the order that follows:*

- 1. Map of animal accidents in the region for years 2007-2009;*
- 2. Map of animal accidents per mile on state routes in the region for the years 2007-2009;*
- 3. Map of animal accidents per route segment in the region for the years 2007-2009;*
- 4. Graphs and table of animal accidents as compared to total accidents by county for the years 2005-2009;*
- 5. Table of animal accidents by community for the years 2007-2009;*
- 6. Table of animal accidents by community and by top ten animal accident-producing routes.*

Total accident volume in the region is trending downward, while animal-related accidents are fluctuating in Cuyahoga and Lake Counties, increasing in Lorain County and decreasing in Geauga County. The purpose of this analytical exercise is to establish a general set of locations that appear appropriate for piloting accident reduction techniques in the region that include vegetation, fencing, ITS technology, under-passes and overpasses as the effort continues into SFY2011 and beyond.

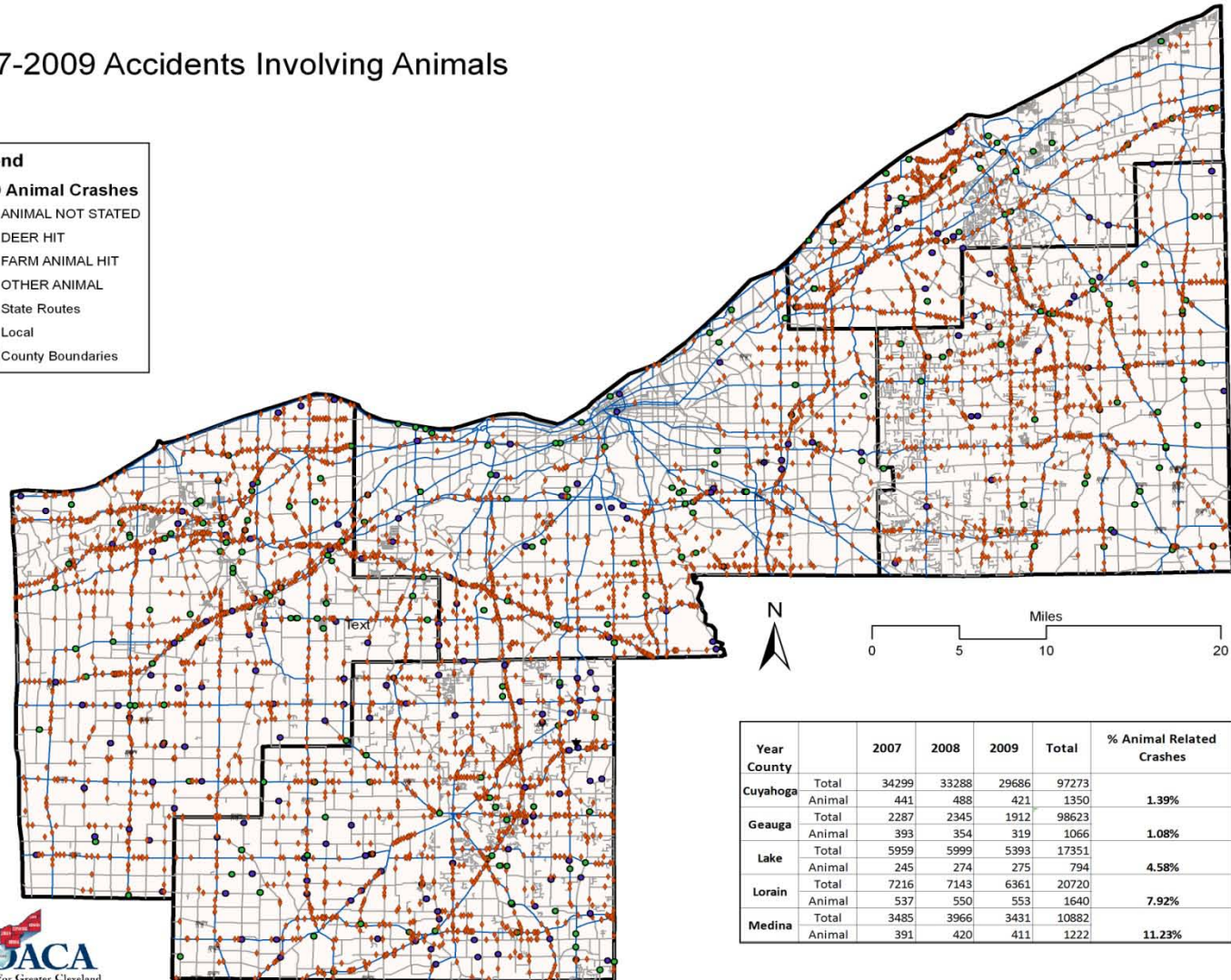
Next steps will include examining density, or animal accidents per roadway segment, to identify the highest animal-accident-producing segments on the highest animal-accident –producing route, state and local. However, some preliminary findings based on 2007-2009 ODOT geo-coded data include the following:

- *Mentor had the most animal accidents at 245 and Huntington Township had the greatest percentage of total accidents with 45.6%;*
- *The highest routes are IR-90 at 295 and IR-80 (Ohio Turnpike) at 277;*
- *The highest communities on IR-90 are Avon at 38, Willoughby Hills at 38 and Madison at 34;*
- *The highest totals on a route in a community are SR-2 in Mentor at 78, IR-71 in Strongsville at 52, IR-80 in North Ridgeville at 46 and Strongsville on IR-80 at 44;*
- *The highest two routes within a community are IR-90 and SR-2 in Mentor at 97 and IR-80 and IR-71 in Strongsville at 96;*

**<http://www.noaca.org/wildlifeaccidents.pdf>*

2007-2009 Accidents Involving Animals

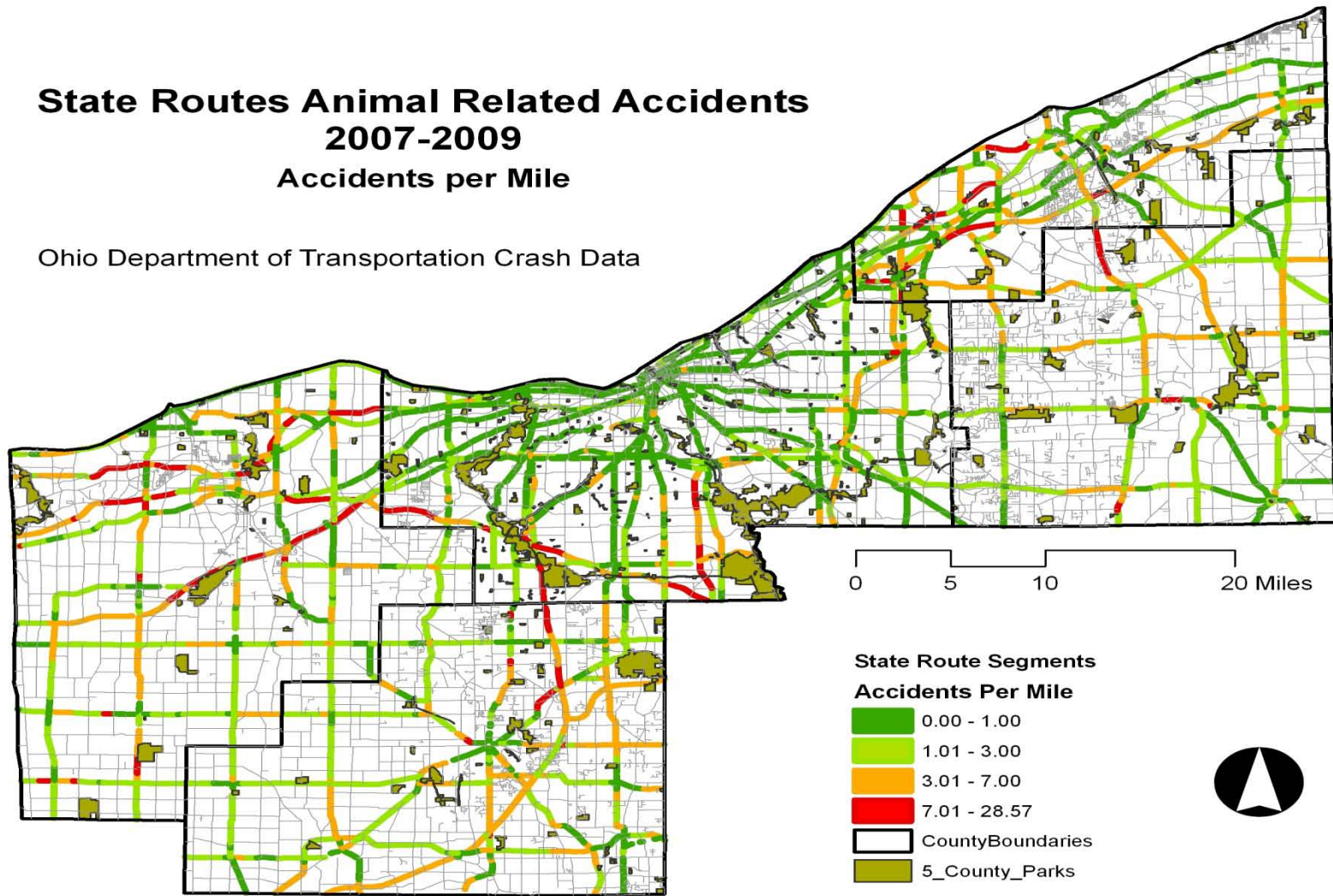
- Legend**
- 07-09 Animal Crashes
 - ANIMAL NOT STATED
 - ◆ DEER HIT
 - FARM ANIMAL HIT
 - OTHER ANIMAL
 - State Routes
 - Local
 - ▭ County Boundaries



Year		2007	2008	2009	Total	% Animal Related Crashes
Cuyahoga	Total	34299	33288	29686	97273	
	Animal	441	488	421	1350	1.39%
Gauga	Total	2287	2345	1912	98623	
	Animal	393	354	319	1066	1.08%
Lake	Total	5959	5999	5393	17351	
	Animal	245	274	275	794	4.58%
Lorain	Total	7216	7143	6361	20720	
	Animal	537	550	553	1640	7.92%
Medina	Total	3485	3966	3431	10882	
	Animal	391	420	411	1222	11.23%

State Routes Animal Related Accidents 2007-2009 Accidents per Mile

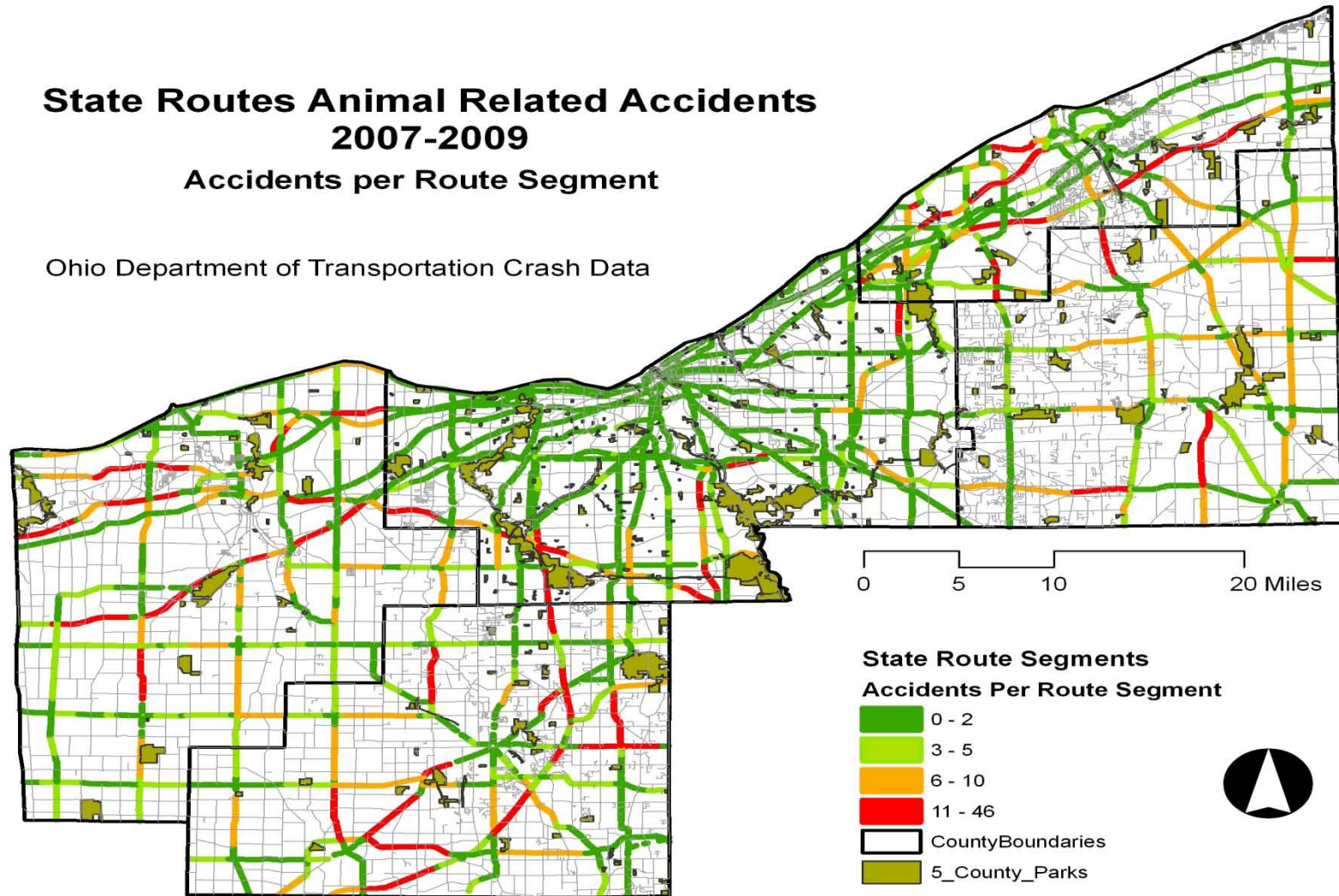
Ohio Department of Transportation Crash Data

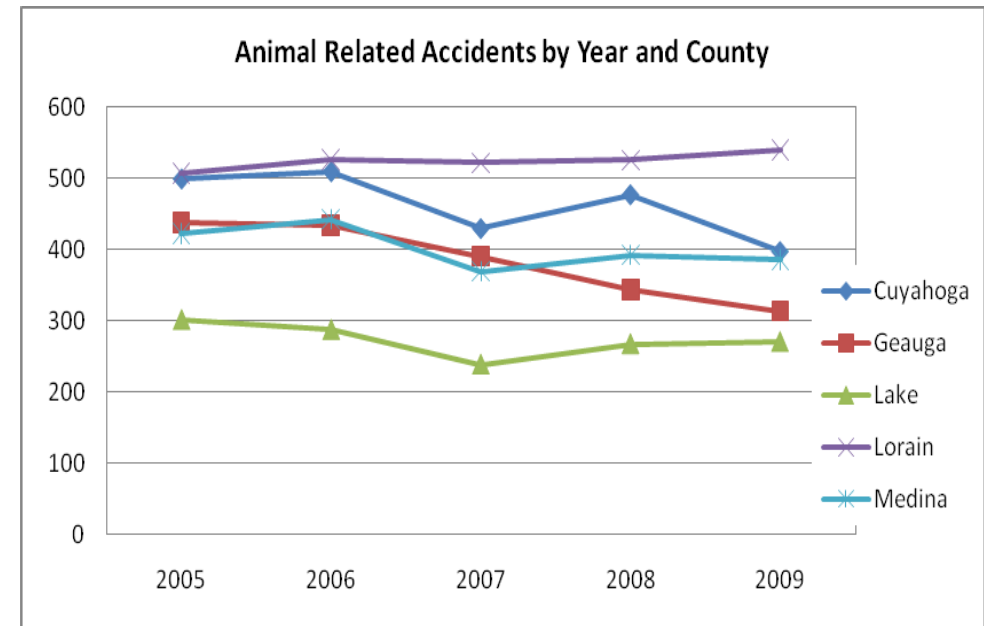
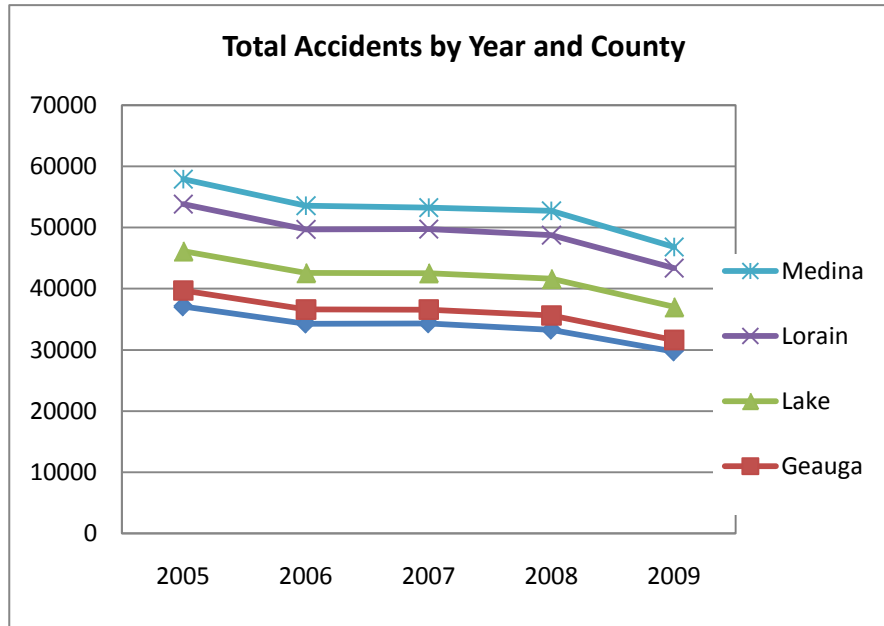


State Routes Animal Related Accidents 2007-2009

Accidents per Route Segment

Ohio Department of Transportation Crash Data





	Cuyahoga			Geauga			Lake			Lorain			Medina			Regional Total		
	Animal	Total	%	Animal	Total	%	Animal	Total	%	Animal	Total	%	Animal	Total	%	Animal	Total	%
2005	499	37090	1.35%	438	2607	16.80%	302	6419	4.70%	508	7700	6.60%	423	4093	10.33%	2170	57909	3.75%
2006	509	34278	1.48%	435	2324	18.72%	288	5976	4.82%	527	7131	7.39%	443	3856	11.49%	2202	53565	4.11%
2007	430	34308	1.25%	391	2287	17.10%	239	5959	4.01%	522	7211	7.24%	370	3480	10.63%	1952	53245	3.67%
2008	477	33278	1.43%	344	2346	14.66%	268	5996	4.47%	526	7136	7.37%	393	3960	9.92%	2008	52716	3.81%
2009	398	29708	1.34%	314	1912	16.42%	271	5399	5.02%	540	6365	8.48%	386	3428	11.26%	1909	46812	4.08%
5-year	2313	168662	1.37%	1922	11476	16.74%	1368	29749	4.60%	2623	35543	7.42%	2015	18817	10.73%	10241	264247	3.88%

ACCIDENTS INVOLVING ANIMALS AS A % OF TOTAL ACCIDENTS BY COMMUNITY 2007-2009

Community	Total Accidents	Animal-Related Accidents	Animal as % of Total
MENTOR	5260	245	4.66%
STRONGSVILLE	3260	180	5.52%
NORTH RIDGEVILLE	1707	163	9.55%
MEDINA	2252	144	6.39%
AMHERST	1614	142	8.80%
ELYRIA	5498	139	2.53%
MUNSON	544	135	24.82%
MONTVILLE	572	133	23.25%
CARLISLE	679	129	19.00%
SHEFFIELD	1340	129	9.63%
CHARDON	947	128	13.52%
AVON	1570	98	6.24%
BRECKSVILLE	646	92	14.24%
GRANGER	465	91	19.57%
AUBURN	417	86	20.62%
NEWBURY	451	86	19.07%
CLARIDON	320	85	26.56%
BROADVIEW HEIGHTS	1151	84	7.30%
PITTSFIELD	275	83	30.18%
WILLOUGHBY	2185	81	3.71%
BURTON	423	80	18.91%
HINCKLEY	431	79	18.33%
WADSWORTH	1671	78	4.67%
HARRISVILLE	404	77	19.06%
WESTFIELD	541	76	14.05%

Community	Total Accidents	Animal-Related Accidents	Animal Accidents as a % of Total
CLEVELAND	40749	74	0.18%
HAMBDEN	319	74	23.20%
INDEPENDENCE	1617	74	4.58%
NORTH ROYALTON	1610	74	4.60%
CHESTER	557	70	12.57%
GUILFORD	406	70	17.24%
LORAIN	3520	68	1.93%
MADISON	1194	67	5.61%
WILLOUGHBY HILLS	763	64	8.39%
LAFAYETTE	301	63	20.93%
AVON LAKE	620	62	10.00%
KIRTLAND	449	61	13.59%
COLUMBIA	471	59	12.53%
GRAFTON	357	59	16.53%
LIVERPOOL	299	58	19.40%
CONCORD	1108	57	5.14%
HUNTINGTON	125	57	45.60%
MEDINA (TOWNSHIP OF)	513	56	10.92%
PEPPER PIKE	773	55	7.12%
BRUNSWICK HILLS	370	53	14.32%
SHARON	321	53	16.51%
BROWNHELM	254	50	19.69%
EASTLAKE	1326	49	3.70%
HUNTSBURG	162	49	30.25%
NEW RUSSIA	246	47	19.11%
WELLINGTON	326	46	14.11%

Community	Total Accidents	Animal-Related Accidents	Animal Accidents as a % of Total
MONTVILLE (TOWNSHIP OF)	279	45	16.13%
YORK	287	44	15.33%
VALLEY VIEW	529	43	8.13%
WALTON HILLS	188	43	22.87%
CHATHAM	175	42	24.00%
GARFIELD HEIGHTS	2559	41	1.60%
MIDDLEFIELD	426	41	9.62%
OLMSTED	410	40	9.76%
LEROY	339	39	11.50%
RUSSELL	267	39	14.61%
PAINESVILLE	2063	38	1.84%
TROY	227	38	16.74%
LAGRANGE	229	37	16.16%
LITCHFIELD	165	37	22.42%
BEDFORD HEIGHTS	913	36	3.94%
CAMDEN	107	36	33.64%
VERMILION	208	35	16.83%
PARKMAN	268	34	12.69%
PENFIELD	118	34	28.81%
BEACHWOOD	1540	33	2.14%
HIGHLAND HEIGHTS	595	33	5.55%
SPENCER	102	33	32.35%
WICKLIFFE	955	33	3.46%
BAINBRIDGE	764	28	3.66%
GATES MILLS	302	28	9.27%
HOMER	93	26	27.96%

Community	Total Accidents	Animal-Related Accidents	Animal Accidents as a % of Total
BEREA	935	25	2.67%
NORTH OLMSTED	2307	23	1.00%
PARMA HEIGHTS	1088	22	2.02%
WARRENSVILLE HEIGHTS	1457	22	1.51%
OAKWOOD	497	21	4.23%
ROCHESTER	55	21	38.18%
BRUNSWICK	1169	20	1.71%
OLMSTED FALLS	322	20	6.21%
PARMA	3378	20	0.59%
BRIGHTON	48	19	39.58%
MIDDLEBURG HEIGHTS	1708	19	1.11%
THOMPSON	156	19	12.18%
MAYFIELD HEIGHTS	1464	18	1.23%
SEVEN HILLS	397	17	4.28%
WESTLAKE	2247	17	0.76%
MAYFIELD	499	16	3.21%
SOLON	1755	15	0.85%
EUCLID	2448	14	0.57%
RICHMOND HEIGHTS	571	14	2.45%
HIGHLAND HILLS	155	13	8.39%
LYNDHURST	1226	12	0.98%
BROOKLYN	1046	11	1.05%
SOUTH EUCLID	1318	11	0.83%
PERRY	474	10	2.11%
WAITE HILL	49	10	20.41%
MAPLE HEIGHTS	1272	8	0.63%

Community	Total Accidents	Animal-Related Accidents	Animal Accidents as a % of Total
ROCKY RIVER	839	7	0.83%
SEVILLE	102	7	6.86%
SHAKER HEIGHTS	2173	7	0.32%
CHAGRIN FALLS	250	6	2.40%
GLENWILLOW	46	6	13.04%
HUNTING VALLEY	86	5	5.81%
LAKEWOOD	2012	5	0.25%
SOUTH AMHERST	30	5	16.67%
WILLOWICK	678	5	0.74%
CHESTERLAND	58	4	6.90%
CLEVELAND METRO PARKS	24	4	16.67%
FAIRVIEW PARK	715	4	0.56%
GRAND RIVER	16	4	25.00%
MENTOR-ON-THE-LAKE	162	4	2.47%
ORANGE	232	4	1.72%
BENTLEYVILLE	24	3	12.50%
BROOK PARK	1126	3	0.27%
BROOKLYN HEIGHTS	246	3	1.22%
EAST CLEVELAND	1049	3	0.29%
MORELAND HILLS	114	3	2.63%
OBERLIN	306	3	0.98%
BEDFORD	1014	2	0.20%
BRATENAHL	360	2	0.56%
FLORENCE	2	2	100.00%
LODI	118	2	1.69%
SHEFFIELD LAKE	174	2	1.15%

Community	Total Accidents	Animal-Related Accidents	Animal Accidents as a % of Total
COPLEY	4	1	25.00%
EDINBURG	1	1	100.00%
FAIRPORT HARBOR	46	1	2.17%
LAKELINE	6	1	16.67%
NORTH RANDALL	271	1	0.37%
NORTON	5	1	20.00%
RICHFIELD	10	1	10.00%
UNIVERSITY HEIGHTS	677	1	0.15%
BATH	1	0	0.00%
BOSTON	1	0	0.00%
BRUNSWICK HILLS (TOWNSHIP OF)	1	0	0.00%
CHIPPEWA	3	0	0.00%
CHIPPEWA-ON-THE-LAKE	1	0	0.00%
CHIPPEWA-ON-THE-LAKE (CORP NAM	2	0	0.00%
CLEVELAND METROPARKS	8	0	0.00%
COLUMBUS	1	0	0.00%
CUYAHOGA FALLS	1	0	0.00%
CUYAHOGA HEIGHTS	40	0	0.00%
GENEVA	1	0	0.00%
GLENWILLOW (RR NAME FALLS JUNC	22	0	0.00%
GROTON	1	0	0.00%
HARPERSFIELD	1	0	0.00%
JACKSON	2	0	0.00%
KIPTON	3	0	0.00%
LAKE	1	0	0.00%
LAYFAYETTE	1	0	0.00%

Community	Total Accidents	Animal-Related Accidents	Animal Accidents as a % of Total
MACEDONIA	1	0	0.00%
MILAN	1	0	0.00%
MILTON	5	0	0.00%
MUNROE FALLS	1	0	0.00%
NELSON	1	0	0.00%
NEWBURGH HEIGHTS	186	0	0.00%
NORTH PERRY	34	0	0.00%
RITTMAN	1	0	0.00%
SANDUSKY	1	0	0.00%
SOUTH RUSSELL	36	0	0.00%
SPRINGFIELD	1	0	0.00%
SULLIVAN	1	0	0.00%
TIMBERLAKE	42	0	0.00%
TRUMBULL	1	0	0.00%
WESTFIELD CENTER	2	0	0.00%
WINDSOR	1	0	0.00%
WOODMERE	151	0	0.00%
Total	152770	6072	

Source: Ohio Department of Transportation Crash Data

2007-2009 Accidents Involving Animals Sorted by Location and Community											
Municipality	Accident Location										Total
	IR0090	IR0080	IR0071	SR0002	US0020	US0006	SR0044	IR0271	SR0058	SR0003	
AMHERST	1	36		48					23		108
AUBURN							24				24
AVON	38					1					39
AVON LAKE						11					11
BAY VILLAGE						3					3
BEACHWOOD								7			7
BEDFORD								2			2
BEDFORD HEIGHTS								16			16
BEREA		14									14
BRATENAHL	2										2
BRECKSVILLE		13									13
BROADVIEW HEIGHTS		16									16
BROOK PARK			3								3
BROOKLYN			3								3
BROWNHELM		10		23							33
BRUNSWICK			9								9
BRUNSWICK HILLS			24								24
CAMDEN					14						14
CARLISLE					42						42
CHARDON						18	38				56
CLEVELAND	14		12	4							30
CONCORD	24						11				35
EASTLAKE				7							7
2007-2009 Accidents Involving Animals Sorted by Location and Community											

Community	Accident Location										Total
	IR0090	IR0080	IR0071	SR0002	US0020	US0006	SR0044	IR0271	SR0058	SR0003	
EATON					4						4
ELYRIA	24	31		6	1						62
EUCLID	3			1	5						9
FLORENCE	1										1
GRAND RIVER							3				3
GRANGER								30		7	37
GUILFORD			3							13	16
HAMBDEN						14					14
HARRISVILLE			16								16
HENRIETTA		10									10
HIGHLAND HEIGHTS								8			8
HINCKLEY										23	23
HUNTINGTON									23		23
HUNTSBURG						1					1
KIRTLAND						19					19
KIRTLAND HILLS	13										13
LAKWOOD	1					1					2
LEROY	17										17
LORAIN						19			7		26
LYNDHURST								3			3
MADISON	34				4						38
MAYFIELD								5			5
MAYFIELD HEIGHTS								10			10
MEDINA			36							27	63
2007-2009 Accidents Involving Animals Sorted by Location and Community											

Community	Accident Location										Total
	IR0090	IR0080	IR0071	SR0002	US0020	US0006	SR0044	IR0271	SR0058	SR0003	
MEDINA (TOWNSHIP OF)			2							7	9
MENTOR	19			78	13		6				116
MIDDLEBURG HEIGHTS			9								9
MONTVILLE			21			28				6	55
MONTVILLE (TOWNSHIP OF)			3							6	9
MUNSON							22				22
NEW RUSSIA					16				7		23
NEWBURY							14				14
NORTH RIDGEVILLE		46			11						57
NORTH ROYALTON		22								3	25
OAKWOOD								6			6
OBERLIN					1						1
OLMSTED		20									20
OLMSTED FALLS		12									12
PAINESVILLE				7			7				14
PARMA		2								1	3
PEPPER PIKE								9			9
PERRY					2						2
PITTSFIELD					25				25		50
RICHFIELD		1									1
RICHMOND HEIGHTS						3					3
ROCKY RIVER	4					1					5
SHEFFIELD	30			2							32
2007-2009 Accidents Involving Animals Sorted by Location and Community											

Community	Accident Location										Total
	IR0090	IR0080	IR0071	SR0002	US0020	US0006	SR0044	IR0271	SR0058	SR0003	
SHEFFIELD LAKE						1					1
SOUTH EUCLID						1					1
STRONGSVILLE		44	52								96
VERMILION				13		16					29
WADSWORTH			1								1
WAITE HILL	4										4
WARRENSVILLE HEIGHTS								7			7
WELLINGTON									12		12
WESTFIELD			21							3	24
WESTLAKE	7				2						9
WICKLIFFE	13			4	4						21
WILLOUGHBY	8			20	4						32
WILLOUGHBY HILLS	38					9		6			53
Grand Total	295	277	215	213	148	146	125	109	97	96	1721

Source: Ohio Department of Transportation Crash Data