

Appendices (on-line version only)

Appendix 1. Comparison of veterinarian numbers sourced by Canadian Veterinary Medical Association and Toronto Humane Society, for years and provinces for which both were available.

Province	Year	CVMA	THS	Difference (%)
BC	2019	1507	1677	11
MB	2015	358	379	6
NB	2010	185	154	18
NB	2011	193	162	17
NB	2012	194	164	17
NB	2013	209	177	17
NB	2014	214	179	18
NB	2015	219	185	17
NB	2016	214	186	14
NB	2017	229	197	15
NB	2018	232	197	16
NB	2019	246	215	13
ON	2011	4304	4301	0.1
ON	2012	4401	4421	0.4
ON	2013	4542	4528	0.3
ON	2014	4588	4570	0.4
ON	2015	4564	4570	0.1
ON	2016	4674	4653	0.5
ON	2017	4758	4741	0.4
ON	2018	4867	4878	0.2

CVMA – Canadian Veterinary Medical Association; THS – Toronto Humane Society
BC – British Columbia; MB – Manitoba; NB – New Brunswick; ON – Ontario

Appendix 2A-C. Measures of uncertainty for the Canadian veterinary practice economic survey.

2A. Total clients per full-time veterinarian

Year	Sample size	Clients	Standard error	95% CI lower bound	95% CI upper bound	Margin of error (%)
2008	ND	1,266	ND	ND	ND	ND
2009	ND	1,101	ND	ND	ND	ND
2010	ND	1,116	ND	ND	ND	ND
2011	ND	919	ND	ND	ND	ND
2012	193	903	41	823	983	8.8
2013	344	888	28	834	942	6.1
2014	330	845	25	796	894	5.8
2015	294	826	22	783	869	5.2
2016	375	865	24	818	912	5.4
2017	347	855	26	804	906	5.9
2018	345	828	25	779	877	5.9
2019	336	816	25	767	865	6.0
2020	239	887	32	825	949	7.0

CI – confidence interval; ND – no data

2B. Gross revenue per full-time-equivalent veterinarian

Year	Sample size	Gross revenue (CAD)	Standard error	95% CI lower bound	95% CI upper bound	Margin of error (%)
2008	ND	463,120	ND	ND	ND	ND
2009	ND	483,000	ND	ND	ND	ND
2010	ND	458,045	ND	ND	ND	ND
2011	ND	477,175	ND	ND	ND	ND
2012	417	486,913	9,982	467,348	506,478	4.0
2013	384	484,750	8,315	468,453	501,047	3.4
2014	380	529,202	9,377	510,824	547,580	3.5
2015	327	519,934	9,615	501,088	538,780	3.6
2016	420	537,452	9,558	518,718	556,186	3.5
2017	376	583,434	11,125	561,628	605,240	3.7
2018	363	591,757	10,454	571,267	612,247	3.5
2019	368	631,517	12,443	607,128	655,906	3.9
2020	265	646,893	14,462	618,548	675,238	4.4

CAD – Canadian dollars; CI – confidence interval; ND – no data

2C. Net revenue per full-time-equivalent veterinarian

Year	Sample size	Net revenue (CAD)	Standard error	95% CI lower bound	95% CI upper bound	Margin of error (%)
2008	ND	139,258	ND	ND	ND	ND
2009	ND	138,660	ND	ND	ND	ND
2010	ND	153,053	ND	ND	ND	ND
2011	ND	145,981	ND	ND	ND	ND
2012	314	145,981	4,574	137,016	154,946	6.1
2013	278	131,921	4,589	122,926	140,916	6.8
2014	280	170,033	4,707	160,807	179,259	5.4
2015	248	159,900	4,861	150,373	169,427	6.0
2016	315	163,057	4,678	153,888	172,226	5.6
2017	292	178,761	8,949	161,221	196,301	9.8
2018	278	189,709	5,704	178,529	200,889	5.9
2019	274	200,580	6,641	187,563	213,597	6.5
2020	187	207,013	15,731	176,180	237,846	14.9

CAD – Canadian dollars; CI – confidence interval; ND – no data

Appendix 3A-F. Measures of uncertainty for the pet population survey.

3A. Total pet numbers

Year	Sample size	Total pets (x 10⁶)	Standard error (x 10⁶)	95% CI lower bound (x 10⁶)	95% CI upper bound (x 10⁶)	Margin of error (%)
2007	4,445	13.5	0.10	13.3	13.7	1.5
2010	4,721	14.5	0.11	14.3	14.7	1.4
2012	4,208	14.9	0.11	14.7	15.1	1.5
2014	4,452	15.2	0.11	15.0	15.4	1.5
2016	1,821	15.5	0.18	15.2	15.8	2.2
2018	1,671	15.7	0.19	15.3	16.1	2.4
2020	1,514	15.8	0.20	15.4	16.2	2.5

3B. Total medicalized pets

Year	Sample size	Medicalized pets (x 10⁶)	Standard error (x 10⁶)	95% CI lower bound (x 10⁶)	95% CI upper bound (x 10⁶)	Margin of error (%)
2007	7,941	9.020	0.092	8.840	9.200	2.0
2010	8,649	9.187	0.094	9.003	9.371	2.0
2012	7,295	10.099	0.109	9.885	10.313	2.1
2014	7,784	10.419	0.108	10.207	10.631	2.0
2016	3,388	10.671	0.168	10.343	10.999	3.1
2018	5,183	11.153	0.139	10.880	11.426	2.5
2020	4,302	11.243	0.147	10.954	11.532	2.6

3C. Total dog numbers

Year	Sample size	Total dogs (x 10⁶)	Standard error (x 10⁶)	95% CI lower bound (x 10⁶)	95% CI upper bound (x 10⁶)	Margin of error (%)
2007	4,445	5.500	0.039	5.423	5.577	1.4
2010	4,721	6.400	0.045	6.312	6.488	1.4
2012	4,208	6.800	0.050	6.702	6.898	1.4
2014	4,452	7.100	0.050	7.001	7.199	1.4
2016	1,821	7.400	0.083	7.236	7.564	2.2
2018	1,671	7.600	0.089	7.425	7.775	2.3
2020	1,514	7.700	0.096	7.512	7.888	2.4

3D. Total medicalized dogs

Year	Sample size	Medicalized dogs (x 10 ⁶)	Standard error (x 10 ⁶)	95% CI lower bound (x 10 ⁶)	95% CI upper bound (x 10 ⁶)	Margin of error (%)
2007	3,793	4.620	0.028	4.566	4.674	1.2
2010	3,353	5.056	0.036	4.986	5.126	1.4
2012	3,245	5.644	0.037	5.571	5.717	1.3
2014	3,366	5.964	0.038	5.890	6.038	1.2
2016	1,569	6.216	0.057	6.103	6.329	1.8
2018	2,308	6.536	0.047	6.443	6.629	1.4
2020	2,419	6.545	0.083	6.382	6.708	1.4

3E. Total cat numbers

Year	Sample size	Total cats (x 10 ⁶)	Standard error (x 10 ⁶)	95% CI lower bound (x 10 ⁶)	95% CI upper bound (x 10 ⁶)	Margin of error (%)
2007	4,445	8.000	0.058	7.886	8.114	1.4
2010	4,721	8.100	0.057	7.988	8.212	1.4
2012	4,208	8.100	0.059	7.984	8.216	1.4
2014	4,452	8.100	0.058	7.986	8.214	1.4
2016	1,821	8.100	0.092	7.920	8.280	2.2
2018	1,671	8.100	0.093	7.918	8.282	2.3
2020	1,514	8.100	0.099	7.906	8.294	2.4

3F. Total medicalized cats

Year	Sample size	Medicalized cats (x 10 ⁶)	Standard error (x 10 ⁶)	95% CI lower bound (x 10 ⁶)	95% CI upper bound (x 10 ⁶)	Margin of error (%)
2007	4,148	4.400	0.034	4.334	4.466	1.5
2010	5,296	4.131	0.029	4.075	4.187	1.4
2012	4,050	4.455	0.035	4.387	4.523	1.5
2014	4,418	4.455	0.033	4.390	4.520	1.5
2016	1,819	4.455	0.052	4.353	4.557	2.3
2018	2,875	4.617	0.043	4.533	4.701	1.8
2020	1,883	4.698	0.053	4.594	4.802	2.2