Supplementary Table S1. Description of data by participating herds, CH_4 measurement method, breed and start of data recording month and year

Herd code	No. Obs	CH_4 Method	Breed	Record Start time (Month-Year)
HDC11	111	SF_6	Holstein	05-2012
HDC12	90	Chamber	Holstein	01-2011
HDC21	61	Chamber	Holstein	-
HDC31	10290	Sniffer	Holstein	01-2013
HDE11	13756	Sniffer	Holstein	12-2014
HDE12	1241	Sniffer	Holstein	02-2016
HDN11	119	Sniffer	Holstein	05-2013
HDN12	68	Sniffer	Holstein	06-2013
HDN13	116	Sniffer	Holstein	-
HDN21	54	Chamber	Nordic Red	01-2014
HDN22	2175	Sniffer	Nordic Red	03-2018
HDS11	86	Sniffer	Holstein	04-2018
HDS12	202	Sniffer	Holstein	05-2018
HDS13	174	Sniffer	Holstein	05-2018
HDS14	65	Sniffer	Holstein	05-2018
HDS21	316	Chamber	Holstein+Brown[§]	-
HDW11	102	Chamber	Holstein+Nordic +Norwegian[¥]	01-2006
HDW12	89	SF_6	Holstein	-
HDW21	540	Sniffer	Holstein	01-2011
HDW22	13864	Sniffer	Holstein	01-2011

[§] Holstein and Brown Swiss with 201 and 115 observations, respectively.

[¥] Holstein, Nordic cross and Norwegian Red with 72, 17,and 13 observations, respectively.