

**Table S2.** The geographic distribution of clustered sampling and group size in sheep transhumance systems.

Clusters <sup>&amp;</sup>	Municipalities	Number of animals	Sampled animals	Cumulative percentage	Geographical coordinates		
					Northern latitude	Western longitude	Altitude (masl)
1	Lerma	34	3	.9	19°18'41''	99°26'23''	2574
2	Ocoyoacac	22	7	2.9	19°17'05''	99°26'34''	2731.2
3	Ocoyoacac	206	8	5.2	19°16'30''	99°29'11''	2735
4	Capulhuac	160	8	7.5	19°14'54''	99°27'15''	2735.22
5	Lerma	154	9	10.1	19°14'19''	99°28'53''	2866
6	Lerma	51	6	11.9	19°14'16''	99°28'52''	2572
7	Lerma	182	12	15.4	19°14'16''	99°28'42''	2574
8	Capulhuac	76	18	20.6	19°13'18''	99°27'22''	2735.05
9	Chapultepec	176	7	22.6	19°12'01''	99°31'21''	2574.32
10	Chapultepec	145	6	24.3	19°12'02''	99°31'21''	2574.27
11	Santiago Tianguistenco	295	10	27.2	19°12'03''	99°31'21''	2574.26
12	Chapultepec	120	16	31.9	19°12'04''	99°31'21''	2574.24
13	Santiago Tianguistenco	94	5	33.3	19°12'05''	99°31'21''	2574.26
14	Santiago Tianguistenco	111	7	35.4	19°12'06''	99°31'21''	2574.27
15	Santiago Tianguistenco	107	13	39.1	19°12'10''	99°25'48''	2735.12
16	Capulhuac	120	10	42	19°12'26''	99°28'18''	2735.1
17	Santiago Tianguistenco	48	10	44.9	19°12'11''	99°31'33''	2575.12
18	Chapultepec	60	10	47.8	19°12'12''	99°31'37''	2575.16
19	Chapultepec	150	15	52.2	19°12'13''	99°31'37''	2575.11
20	Santiago Tianguistenco	140	10	55.1	19°11'55''	99°31'21''	2574.31
21	Santiago Tianguistenco	298	24	62	19°11'56''	99°31'21''	2574.34
22	Xalatlaco	130	17	67	19°10'47''	99°24'25''	2817
23	Xalatlaco	200	12	70.4	19°10'08''	99°25'13''	2827
24	Xalatlaco	76	7	72.5	19°10'03''	99°25'02''	2811
25	Xalatlaco	18	10	75.4	19°10'01''	99°25'08''	2952
26	Xalatlaco	35	8	77.7	19°09'48''	99°23'01''	2995
27	Xalatlaco	121	8	80	19°09'40''	99°24'15''	2831
28	Xalatlaco	130	24	87	19°09'20''	99°24'27''	2829

29	Tescalyacac	130	10	89.9	19°08'12''	99°30'56''	2574.3
30	Tescalyacac	46	7	91.9	19°08'13''	99°30'56''	2574.3
31	Tescalyacac	51	9	94.5	19°08'14''	99°30'58''	2574.29
32	Tescalyacac	117	10	97.4	19°08'24''	99°31'06''	2574.29
33	Tescalyacac	59	3	98.3	19°08'27''	99°31'25''	2574.29
34	Tescalyacac	20	4	99.4	19°08'29''	99°30'48''	2574.29
35	Tescalyacac	10	2	100	19°08'34''	99°30'58''	2574.29

&The numbering of the clusters does not correspond to the order of sampling selection.

masl., meters above sea level.