

Table 1. Sampling sites for sheep/goat milk and honey

Region	Contaminated area (milk – honey)	Control area (milk – honey)
Sardinia	Fiume Santo (SS) ¹ – Sulcis Iglesiente Guspinese (CI) ²	Sassari – Lula (NU)
Sicily	Milazzo (ME) ²	Nebrodi Regional Park (ME)
Tuscany*	Le Strillaie (GR) ²	Grosseto
Marche	Basso bacino del fiume Chienti (MC) ²	Gola della Rossa Regional Park (AN)
Lazio	Colleferro (RM) ³ – Segni (RM) ⁶	Monti Simbruini Regional Park (RM)
Abruzzo	Bussi Popoli (PE) ²	Gran Sasso Monti della Laga National Park (TE)
Campania	Valle del Sarno (SA) ²	Cilento National Park (SA)
Trentino	Valsugana (TN) ⁴	---
Molise	Campobasso Guglionesi II (CB) ²	Abruzzo National Park (IS)
Umbria	Terni Papigno (TR) ²	Monti Sibillini National Park (PG)
Basilicata	Val Basento (MT) ²	Pollino National Park (MT)
Lombardy	Val Trompia (BS) ⁴	---
Apulia	Taranto ²	Gargano National Park (FG)
Emilia-Romagna	Formigine (MO) ⁵	Appennino Tosco Emiliano National Park (BO)
Calabria	Crotone ²	Sila National Park (CS)
Piedmont**	Carisio (VC) ⁷	---

* Only milk samples taken; ** Only honey samples taken

¹Thermal power plant; ²Contaminated site of national interest; ³Metal industries, organochlorine pesticides production, cement kilns, waste incinerators; ⁴Steel plants; ⁵Ceramic factories; ⁶Cement kiln; ⁷Aluminum smelter.

Table 2. Analytical results for sheep/goat milk samples

Region	Group	PBDEs ^a pg/g fat	PCDDs/PCDFs pg WHO ₂₀₀₅ - TEQ/g fat	DL-PCBs pg WHO ₂₀₀₅ - TEQ/g fat	NDL-PCBs ng/g fat	PeCB ng/g fat	HCB ng/g fat	PFOS ng/g	PFOA ng/g
Sardinia	E-zone	257	0.17	0.49	2.4	0.379	3.929	0.2557	<0.0090
	NE-zone	419	0.09	0.59	2.4	0.134	2.620	0.0040	<0.0092
Sicily	E-zone	511	0.72	2.91	6.4	0.166	2.801	0.0355	ND ^b
	NE-zone	363	0.29	0.28	2.4	<0.086	2.492	0.0037	ND ^b
Tuscany	E-zone	442	0.61	0.63	2.4	0.354	3.903	0.0033	<0.0080
	NE-zone	292	0.04	0.28	2.4	<0.082	3.255	0.0026	<0.0077
Marche	E-zone	276	0.35	0.76	4.1	0.267	4.983	0.1365	<0.0086
	NE-zone	321	0.69	0.67	3.5	0.084	3.836	0.0018	<0.0082
Lazio	E-zone	379	1.88	1.30	2.7	0.177	5.104	0.0041	<0.0082
	NE-zone	376	0.20	0.06	2.4	0.286	4.150	0.0045	<0.0079
Abruzzo	E-zone	146	0.11	0.66	2.6	0.193	3.388	0.0054	<0.0085
	NE-zone	335	0.10	0.68	4.4	0.195	4.896	0.0148	<0.0087
Campania	E-zone	432	0.71	1.31	2.4	0.143	3.548	0.0078	<0.0085
	NE-zone	351	0.31	0.95	5.3	0.242	2.291	0.0049	<0.0084
Trentino	E-zone	518	0.51	1.71	4.6	0.538	9.270	0.0160	<0.0087
Molise	E-zone	567	0.11	0.80	2.8	<0.235	2.501	0.0053	<0.0085
	NE-zone	298	0.11	0.72	2.7	<0.113	1.686	0.0054	<0.0084
Umbria	E-zone	244	0.73	1.63	5.0	0.145	3.057	0.0034	<0.0084
	NE-zone	320	0.11	0.67	3.0	0.444	4.600	0.0039	0.0188
Basilicata	E-zone	423	1.17	0.59	3.7	0.066	2.952	0.0033	<0.0090
	NE-zone	274	0.19	0.34	3.5	<0.069	3.224	<0.0056	ND ^b
Lombardy	E-zone	920	0.30	3.33	13.3	0.239	3.098	0.0121	<0.0081
Apulia	E-zone	277	0.53	1.74	9.1	0.570	5.008	0.0137	<0.0083
	NE-zone	398	0.28	0.54	2.8	0.080	1.809	0.0124	<0.0083
Emilia-Romagna	E-zone	645	0.75	0.94	3.5	<0.201	1.926	<0.0057	ND ^b
	NE-zone	488	0.09	0.67	3.1	0.059	2.374	0.0388	<0.0085
Calabria	E-zone	457	0.10	2.64	10.3	0.046	3.765	0.0056	<0.0101
	NE-zone	327	0.12	1.91	5.4	<0.170	3.687	0.0028	<0.0096

^a Sum of BDE-28, BDE-47, BDE-66, BDE-85, BDE-99, BDE-100, BDE-153, BDE-154, BDE-183

^b Not determined due to the signal from procedural blanks