

Table S1. Summary of the number of data days in the 2001-2007 period at Gherardi, Fontechiari, Boccadifalco and Febbio stations (“all” row) divided by year and season (winter as DJF - December-January-February, spring as MAM - March-April-May, summer as JJA - June-July-August, autumn as SON - September-October-November) too: number of measurements days with percentage completeness, total number of dust affected days recognized and number of relative PM₁₀ data days available, total number of days with PM₁₀ DLV exceedance and number of this dust affected days.

Year/Season	GH			FC			BF			FE		
	Measurement days (on total %)	In dust days (data available)	DLV exceedance days (In dust)	Measurement days (on total %)	In dust days (data available)	DLV Exceedance days (In dust)	Measurement days (on total %)	In dust days (data available)	DLV exceedance days (In dust)	Measurement days (on total %)	In dust days (data available)	DLV exceedance days (In dust)
2001	312 (85)	17 (12)	3 (0)	343 (94)	37 (37)	12 (4)	197 (54)	86 (43)	10 (9)	-	-	-
2002	337 (92)	36 (35)	16 (2)	349 (96)	60 (58)	13 (9)	332 (91)	86 (79)	19 (19)	-	-	-
2003	261 (72)	36 (30)	12 (0)	352 (96)	60 (57)	2 (2)	334 (92)	101 (97)	23 (22)	-	-	-
2004	287 (78)	42 (32)	4 (0)	364 (99)	85 (83)	13 (8)	316 (86)	117 (104)	17 (17)	-	-	-
2005	327 (90)	25 (19)	7 (0)	351 (96)	43 (42)	14 (2)	344 (94)	88 (83)	10 (10)	340 (93)	26 (26)	3 (3)
2006	247 (68)	33 (12)	3 (1)	338 (93)	47 (42)	11 (2)	348 (95)	85 (79)	18 (17)	348 (95)	31 (31)	2 (1)
2007	185 (51)	27 (15)	4 (1)	359 (98)	65 (65)	10 (3)	331 (91)	114 (106)	14 (14)	295 (81)	24 (21)	0 (0)
all	1956 (77)	216 (155)	49 (4)	2456 (96)	396 (384)	75 (30)	2202 (86)	677 (590)	111 (108)	983 (90)	81 (78)	5 (4)
DJF	592 (94)	28 (25)	34 (2)	607 (96)	42 (39)	40 (4)	572 (91)	84 (73)	8 (8)	252 (93)	15 (14)	0 (0)
MAM	544 (84)	76 (61)	1 (0)	611 (95)	123 (120)	20 (12)	541 (84)	213 (184)	31 (30)	230 (83)	14 (13)	3 (3)
JJA	340 (53)	53 (23)	3 (0)	612 (95)	125 (120)	8 (8)	518 (80)	207 (174)	48 (47)	235 (85)	30 (29)	2 (1)
SON	480 (75)	59 (46)	11 (2)	626 (98)	106 (105)	7 (6)	571 (90)	173 (159)	24 (23)	266 (97)	22 (22)	0 (0)