

PROVINCE	2000-2009					Mortality rate (per year) (x1,000 population)
	Summer months (June-September)					
	Tmax (°C)	Heat waves (per year)	Percentile	Tmax threshold (°C)	AR %	
Mean					Mean	
Alava	25.03	5	95	34	10.8	7.39
Albacete	31.2	13	89	36	3.6	8.46
Alicante	29.69	19	83	32	5.6	7.90
Almería	29.21	4	97	36	14.6	6.88
Asturias	22.69	4	97	30	11.5	11.25
Avila	26.64	12	90	32	9.9	10.60
Badajoz	33.24	15	87	38	9.0	9.33
Balearic Isles	29.95	5	96	36	11.8	8.07
Barcelona	27.25	5	96	32	12.4	8.28
Burgos	26.65	9	92	34	15.3	9.11
Caceres	31.78	7	94	38	21.1	9.29
Cadiz	26.82	9	92	32	8.8	7.15
Cantabria	23.31	2	99	32	7.3	9.53
Castellón	29.35	15	87	32	6.0	8.53
Ciudad Real	32.31	9	92	38	14.4	9.64
Cordoba	34.97	13	89	40	10.4	8.76
Corunna	22.46	11	90	26	6.7	10.29
Cuenca	29.44	17	85	34	7.6	8.87
Gerona	29.04	4	96	36	8.3	8.32
Granada	32.4	7	95	38	10.4	8.47
Guadalajara	31.27	4	96	38	13.2	8.24
Guipúzcoa	21.72	6	95	30	6.6	8.46
Huelva	31.17	13	89	36	9.7	8.28
Huesca	29.67	19	84	34	7.9	10.03
Jaén	31.1	14	87	36	8.7	8.38
La Rioja	28.79	7	93	36	7.1	8.67
Las Palmas	26.64	3	98	32	9.5	6.25
León	25.51	8	93	32	10.2	10.73
Lleida	31.15	11	90	36	12.0	9.86
Lugo	24.27	3	97	34	13.1	12.59
Madrid	29.91	21	82	34	6.7	6.86
Malaga	29.97	1	99	40	13.3	7.82
Murcia	27.87	4	97	34	3.0	7.21
Navarre	27.18	7	94	36	15.9	8.42
Ourense	29.53	10	91	36	5.7	12.67
Pontevedra	24.81	14	88	30	7.1	8.37
Salamanca	28.46	13	89	34	9.9	10.70
SC Tenerife	28.31	7	94	32	9.3	7.08

Segovia	27.72	9	93	34	9.0	9.37
Seville	34.37	7	93	40	16.1	7.86
Soria	26.86	5	95	34	-	10.72
Tarragona	31.45	8	93	36	13.8	8.50
Teruel	29.18	4	97	36	-	10.91
Toledo	32.62	11	90	38	10.9	8.46
Valencia	29.19	5	95	34	6.5	8.83
Valladolid	28.62	6	95	36	17.2	8.79
Vizcaya	24.82	14	88	30	6.0	8.93
Zamora	28.72	5	95	36	18.8	11.33
Zaragoza	30.83	17	86	36	8.0	9.82
Spain	28.68	437				

Table 1. Provincial mean maximum temperature values (Tmax); threshold temperature (Tthreshold); annual average number of heat wave days per year; population attributable risk (PAR) and mortality rate. Period 2000-2009.

PROVINCE	Tmax (°C)	Mean no. of heat waves per year (with/without adaptation)		Percentile	Tmax threshold (°C)		Mortality rate (per year) (x1,000 population)
		Without	With		Without	With	
Alava	26.38	0	6	95	34	29.86	9.84
Albacete	32.55	15	13	89	36	36.12	9.98
Alicante	32.72	78	21	83	32	34.97	9.60
Almería	30.80	0	4	97	36	33.66	8.01
Asturias	23.18	0	4	97	30	25.72	13.49
Avila	29.58	31	12	90	32	33.18	12.93
Badajoz	34.69	11	16	87	38	37.65	10.45
Balearic Isles	31.59	0.3	5	96	36	35.10	7.99
Barcelona	28.41	0.4	5	96	32	31.28	9.23
Burgos	27.07	0	10	92	34	30.59	11.49
Caceres	33.37	2	7	94	38	37.15	11.65
Cadiz	28.59	0.1	10	92	32	30.66	9.63
Cantabria	23.74	0	1	99	32	26.49	11.07
Castellón	29.77	23	16	87	32	32.35	10.16
Ciudad Real	34.82	23	10	92	38	39.01	10.55
Cordoba	34.55	0.1	13	89	40	37.85	10.18
Corunna	22.68	0.1	12	90	26	24.23	12.49
Cuenca	31.35	28	18	85	34	34.61	11.84
Gerona	31.02	0.1	5	96	36	34.53	9.16
Granada	34.00	4	6	95	38	37.72	9.44
Guadalajara	33.62	5	5	96	38	38.03	7.99
Guipúzcoa	26.56	2	6	95	30	29.59	10.85
Huelva	32.46	1	13	89	36	34.82	9.26
Huesca	33.19	58	20	84	34	36.39	11.33
Jaén	32.96	19	16	87	36	36.23	10.45
La Rioja	30.52	0.3	9	93	36	34.19	10.52
Las Palmas	27.85	0	2	98	32	29.45	7.96
León	27.52	1	9	93	32	30.8	13.38
Lleida	32.34	11	12	90	36	35.95	10.13
Lugo	26.21	0	4	97	34	29.62	14.99
Madrid	31.19	22	22	82	34	34.02	8.05
Malaga	29.44	0	1	99	40	32.88	9.06
Murcia	29.28	0	4	97	34	32.02	8.20
Navarre	28.19	0	7	94	36	31.77	9.37
Ourense	30.06	0.1	11	91	36	32.79	15.37
Pontevedra	25.88	0.2	15	88	30	27.95	11.28
Salamanca	30.59	14	13	89	34	34.03	12.52

SC Tenerife	28.03	0	7	94	32	29.47	8.65
Segovia	34.46	72	9	93	34	38.58	11.25
Seville	36.69	12	8	93	40	40.23	8.98
Soria	27.49	0.2	6	95	34	31.89	12.25
Tarragona	29.72	0	9	93	36	32.67	9.82
Teruel	30.23	0.4	4	97	36	35.63	12.30
Toledo	33.28	3	12	90	38	36.88	9.07
Valencia	29.84	0	6	95	34	32.54	10.10
Valladolid	29.02	0.03	6	95	36	32.87	10.94
Vizcaya	29.62	59	15	88	30	32.14	11.47
Zamora	30.45	0.2	6	95	36	34.19	15.27
Zaragoza	35.36	60	17	86	36	38.91	10.61
Spain	30.26	557	466				10.62

Table 2. Provincial mean maximum daily temperature values (Tmax); threshold temperature (Tthreshold) with its percentile; annual average number of heat wave days per year; mortality rate. RCP8.5 scenario. Period 2021-2050.

PROVINCE	Tmax (°C)	Mean no. of heat waves per year (without/with adaptation)		Percentile	Tmax (°C) threshold (percentile)		Mortality rate (per year) (x1,000 population)
		Without	With		Without	With	
		Alava	29.87		9	6	
Albacete	36.42	69	13	89	36	40.74	10.02
Alicante	35.83	111	21	83	32	38.41	9.73
Almería	33.33	14	4	97	36	37.06	8.10
Asturias	25.50	0.2	4	97	30	28.74	13.60
Avila	33.41	81	12	90	32	37.69	12.91
Badajoz	38.14	69	16	87	38	41.49	10.49
Balearic Isles	34.87	47	5	96	36	39.46	8.10
Barcelona	31.27	51	5	96	32	35.34	9.30
Burgos	31.01	24	10	92	34	35.5	11.55
Caceres	37.01	52	7	94	38	41.56	11.66
Cadiz	30.50	27	10	92	32	32.74	9.83
Cantabria	26.07	0	1	99	32	29.85	11.18
Castellón	32.73	75	16	87	32	35.83	10.30
Ciudad Real	38.96	75	10	92	38	44.07	10.58
Cordoba	37.72	32	13	89	40	41.34	10.25
Corunna	24.72	27	12	90	26	26.75	12.63
Cuenca	35.24	78	18	85	34	39.05	11.78
Gerona	34.25	38	5	96	36	38.92	9.24
Granada	37.06	52	6	95	38	41.43	9.51
Guadalajara	37.44	59	5	96	38	43.1	8.02
Guipúzcoa	29.53	55	6	95	30	33.35	10.97
Huelva	34.95	44	13	89	36	37.53	9.36
Huesca	37.42	97	20	84	34	41.35	11.29
Jaén	36.39	70	16	87	36	40.06	10.49
La Rioja	34.62	46	9	93	36	39.41	10.60
Las Palmas	29.63	1	2	98	32	31.77	8.13
León	31.14	51	9	93	32	35.38	13.40
Lleida	36.57	71	12	90	36	41.26	10.15
Lugo	29.31	2	4	97	34	33.53	14.95
Madrid	34.77	74	22	82	34	37.96	8.15
Malaga	32.00	0	1	99	40	36.26	9.22
Murcia	31.69	18	4	97	34	35.36	8.29
Navarre	31.92	11	7	94	36	36.53	9.44
Ourense	33.30	20	11	91	36	36.75	15.41
Pontevedra	28.70	37	15	88	30	31.36	11.46
Salamanca	34.35	70	13	89	34	38.44	12.56

SC Tenerife	29.69	1	7	94	32	31.48	8.79
Segovia	38.53	106	9	93	34	43.49	11.23
Seville	39.77	64	9	93	40	43.75	9.12
Soria	31.90	37	6	95	34	37.64	12.18
Tarragona	32.57	11	9	93	36	36.26	9.95
Teruel	33.95	38	4	97	36	39.77	12.16
Toledo	37.11	54	12	90	38	41.39	9.13
Valencia	32.46	34	6	95	34	36.12	10.24
Valladolid	32.92	22	6	95	36	37.85	11.13
Vizcaya	33.03	103	15	88	30	36.28	11.57
Zamora	34.50	43	6	95	36	39.54	15.26
Zaragoza	39.90	99	17	86	36	44.27	10.66
Spain	33.55	2269	468				10.69

Table 3. Provincial mean maximum daily temperature values (Tmax); threshold temperature (Tthreshold); annual average number of heat wave days per year and mortality rate. RCP8.5 scenario. Period 2051-2100.