Geography and climate



Geography

The long Danish coastline

Denmark is a small country, compared to its closest neighbours. Sweden and Germany are ten times and eight times larger respectively than Denmark, which has an area of more than 43,000 km². On the other hand, Denmark's coastline is extraordinarily long for a country of this size. Denmark stretches along a coast of more than 7,300 km, which is longer than the Chinese Wall. It corresponds to almost one and a half metre of coast per inhabitant.

One characteristic of Denmark's geography is the many islands, a total of 407. The largest islands are, by order of mention, Sjælland, Vendsyssel-Thy, Fyn, Lolland and Bornholm. Jutland (including Vendsyssel-Thy) account for 70 per cent of Denmark's total area.

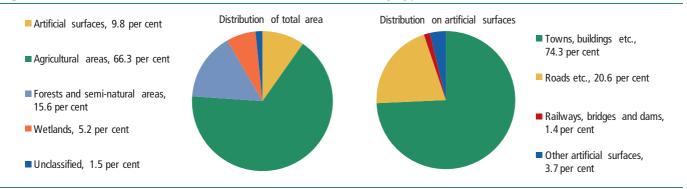
In addition to Denmark, the Kingdom of Denmark includes the self-governing areas of Greenland and the Faroe Islands. The ice-free part of Greenland is almost ten times larger than Denmark.

Denmark's nature is characterized by agriculture and forests

For thousands of years, Denmark has been an agricultural country, and this has largely characterized Danish landscapes. Consequently, two thirds of the landscape consists of man-made agricultural areas. However, forests are also evident in the landscape in the form of, among other types, deciduous forest and coniferous forest. Rold Forest and Grib Forest are the largest forests.



Distribution of Denmark's area by type of area



Man-made infrastructure and buildings characterize the landscape

Cities, roads, railroads, bridges and other types of man-made surfaces cover a total of 10 per cent of Denmark's area, corresponding to three times the area of the Faroe Islands – or 56 per cent of Sjælland. Urban centres, such as residential neighbourhoods and industrial districts, dominate and account for three-fourths of the man-made surfaces.

Climate

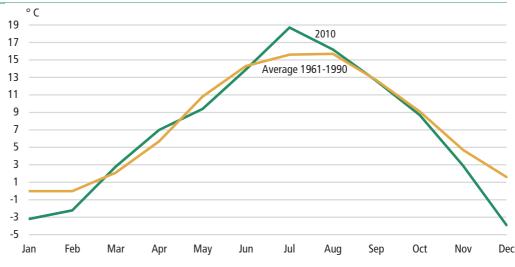
It rains or snows every second day

The Danish weather is known for being variable. It is a fact that it rains or snows every second day in Denmark, since a year has an average of 171 days of precipitation.

Snow seven days a month during the wintertime

Denmark has mild winters without large amounts of snow, but with much rain. On average, it snows seven days every month in December, January and February. This decreases to five days of snow in March, and April has an average of three days of snow.

Figure 2 Temperatures in Denmark



Source: www.dmi.dk

Temperature variations of 16 °C during a year

In a year, the average temperature generally varies from 0 $^{\circ}$ C in January to 16 $^{\circ}$ C in August. Great variations occur in relation to the average. The coldest day in more than 100 years was a January day in 1982 with temperatures of -31 $^{\circ}$ C, and the warmest day was an August day in 1975 with temperatures of 36 $^{\circ}$ C.

"... and it will be overcast again today"

A natural feature of everyday life in Denmark is overcast days and many clouds in the sky are. The clouds cover an average of two thirds of the sky in a year, but the summer is the least cloudy season with an average cloudiness of 60 per cent.

Not many days of sunshine in a year

Denmark is a country where the total hours of sunshine a year gives occasion to enjoy the sun while it is out. There is an average of four hours of sunshine a day, naturally primarily during the spring and summertime. From May to August, there are more than six hours of sunshine a day.

Table 1	Area, populat	ion and coas	tline			
	Land and inland water area km²	Population 1 January 2011	Density of population per km ²	Number of islands	Inland water area 1959 km ²	Coastline 1959 km
All Denmark	42 959.1	5 560 628	129.4	73	700	7 314
Provinces						
Copenhagen City	167.0	692 876	4 149.0	4	18	213
Copenhagen Suburban	342.1	516 751	1 510.5	-		
Nordsjælland	1 448.8	447 864	309.1	2	80	248
Bornholm ¹	588.3	41 896	71.2	2	3	141
Østsjælland	807.8	235 519	291.6	-	7	154
Vest- og Sydsjælland	6 409.9	584 244	91.1	24	102	1 707
Fyn	3 544.4	484 969	136.8	17	26	1 130
Sydjylland	8 777.2	715 687	81.5	8		2
Østjylland	5 841.7	834 113	142.8	7		
Vestjylland	7 158.7	426 880	59.6	3		
Nordjylland	7 873.2	579 829	73.6	6		
Regions						
Hovedstaden	2 546.2	1 699 387	667.4	8	101	602
Sjælland	7 217.7	819 763	113.6	24	109	1 861
Syddanmark	12 321.6	1 200 656	97.4	25		
Midtjylland	13 000.4	1 260 993	97.0	10		
Nordjylland	7 873.2	579 829	73.6	6		
Faroe Islandse	1 396.0	48 650 ³	34.8	17		1 117 ⁴
Greenland	410 449.0 ⁵	56 615	0.1			

Note: Due to different compilation methods figures deviate from figures in table 4. The most southern point in Denmark is Gedserodde on Falster, the most northerly point is near Skagen, the most westerly point is Blåvandshuk, and the most easterly point is Christiansø (Østerskær).

Source: National Survey and Cadastra www.statbank.dk/folk1 and are207

¹ Including Christiansø. ² The border with Germany was measured as 67.7 km. In length. ³ 1 January 2010. ⁴ Measured in 1955. ⁵ Only the part of Greenland free of ice is included. The total area of Greenland is 2,166,086 km², of which 81 per cent is covered by inland ice.

Table 2	Administrative divi	sion of Denma	rk. 2011				
	Municipalities	Parishes	Customs	Constituencies ¹			
			and tax ⁻ regions	Counties and large constituencies	Constituencies		
Total	98	2 187	37	10	92		
The Islands	56	903	20	6	48		
Jutland	42	1 284	17	4	44		
Region Hovedstaden København by Københavns omegn Nordsjælland Bornholm	29 4 13 11 1	248 81 56 89 22	8 2 1 4 1	4 1 1 1	28 12 8 6 2		
Region Sjælland Østsjælland Vest- og Sydsjælland	17 5 12	424 60 364	8 2 6	1 } 1	12 3 9		
Region Syddanmark Fyn Sydjylland	22 10 12	519 231 288	9 4 5	2 1 1	21 8 13		
Region Midtjylland Østjylland Vestjylland	19 11 8	639 357 282	8 5 3	2 1 1	22 11 11		
Nordjylland	11	357	4	1	9		

 $^{^{\}rm 1}$ In accordance with Act no. 1292 of 8 December 2006 on elections to the Danish Parliament.

Tab	le 3	Area and	d population.	Regions ar	d inhabited island	S	
Muni-	-	Area in	Population	Muni	-	Area in	Population
cipa-		km²	1 January 2011	cipa-		km²	1 January 2011
lity				lity			
code				code			
	All Denmark	42 959.1	5 560 628	420	D.	4.5	
	Zanland Lalland Falston	0.175.6	2 477 254	430	Bjørnø	1.5	37
	Zealand, Lolland, Falster	9 175.6	2 477 254	420	Bågø	6.2	34
	Province Byen København	167.0 95.7	692 876 174 179	479 410	Drejø Fænø	4.3 3.9	65 2
185	Amager Saltholm	95.7 16.7	174 179	479		0.9	8
101	Slotsholmen	0.2	14	482	Hjortø Langeland	283.5	13 090
101	Trekroner	0.2	14	430	Lyø	6.2	98
101	Herionei		ı	482	Siø	1.4	16
	Province Københavns omegn	342.1	516 751	479	Skarø	2.0	36
	Trovince Robelliaviis officegii	342.1	310731	482	Strynø	4.9	216
	Province Nordsjælland	1 448.8	447 864	479	Thurø	7.6	3 682
250	Eskilsø	1.4	6	440	Tornø	0.2	4
190	Klaus Nars Holm		2	479	Tåsinge	70.0	6 194
190	Kidus Ivais Hollii		2	492	Ærø	87.5	6 653
	Province Bornholm	588.3	41 896	432	ALIO	67.5	0 033
400	Bornholm	588.0	41 802		Jutland	29 650.8	2 556 509
			94				
411	Christiansø + Frederiksø ¹	0.3	94	540	Province Sydjylland	8 777.2	715 687
	Dunnings Gatain Hand	007.0	225 540		Als	311.4	51 166
	Province Østsjælland	807.8	235 519	580	Barsø	2.7	22
	D : W : 6 :		504.244	563	Fanø	59.6	3 213
220	Province Vest- og Sydsjælland		584 244	580	Kalvø	0.2	14
330	Agersø	8.1	203	561	Mandø	8.5	44
360	Askø	2.8	37	550	Rømø	86.6	650
390	Bogø	14.4	1 135	580	Store Okseø	0.1	4
370	Dybsø	1.4	1	510	Årø	5.9	163
370	Enø	3.5	296		n : « « ! ! !	F 044 7	024.442
376	Falster	514.0	43 244	727	Province Østjylland	5 841.7	834 113
390	Farø		5	727	Alrø	7.7	164
360	Fejø ²	16.0	526	707	Anholt	21.8	154
360	Femø	11.4	145	615	Endelave	13.2	185
370	Gavnø	5.7	38	766	Hjarnø	3.2	98
330	Glænø	:::	53	741	Samsø	112.3	3 885
390	Langø	1.3	3	727	Tunø	3.6	117
360	Lilleø	0.8	5	615	Vorsø	0.6	1
390	Lindholm	0.1	1				
360	Lolland	1 245.0	64 730		Province Vestjylland	7 158.7	426 880
390	Masnedø	1.7	128	779	Fur	22.0	855
390	Møn	218.3	9 777	671	Jegindø	7.8	485
326	Nekselø	2.2	20	671	Venø	6.4	185
390	Nyord	5.6	41				
330	Omø	4.5	167		Province Nordjylland	7 873.2	579 829
316	Orø	15.0	867	773	Agerø	3.5	32
326	Sejerø	12.5	366	851	Egholm		49
390	Tærø	1.7	1	813	Hirsholm	0.2	3
360	Vejrø	1.6	7	820	Livø	3.3	9
	-			825	Læsø	112.9	1 949
	Province Funen	3 544.4	484 969	773	Morsø	360.4	21 568
430	Avernakø	5.7	104				
492	Birkholm	0.9	10		Vendsyssel-Thy ³	4 674.2	300 177

¹ Not included in the division of municipalities, administered by the Ministry of Defence. ² Inkl. Kaldø. ³ Vendsyssel-Thy are devided into provice Vestjylland and Nordjylland.

■ www.statbank.dk/bef4 and are207

Table 4	Land cover		
		Km ²	Per cent
Total area		43 560.76	100.00
Artificial surfaces		4 246.46	9.75
Urban fabric, industrial an	nd commercial units ¹	3 154.63	7.24
Motorway		43.96	0.10
Expressway		9.10	0.02
Road broader than 6 metr	res	269.02	0.62
Road 3 – 6 metres		551.58	1.27
Railway		58.22	0.13
Bridge		0.02	0.00
Embankment		2.64	0.01
Runway		3.31	0.01
Mineral extraction sites		19.94	0.05
Technical sites		17.46	0.04
Cemeteries		6.96	0.02
Sport facilities		52.18	0.12
Leisure facilities		57.44	0.13
Agricultural areas		28 897.85	66.34
Arable land		28 615.01	65.69
Market garden		33.87	0.08
Pastures		155.18	0.36
Pastures in urban areas		93.72	0.22
Land principally occupied	by agriculture, with significant areas of natural vegetation	0.07	0.00
Forests and semi-natura	al areas	6 788.32	15.58
Forest		1 829.48	4.20
Broad-leaved forest		1 309.40	3.01
Coniferous forest		2 147.34	4.93
Mixed forest		7.98	0.02
Natural grassland		391.92	0.90
Moors and heath land		981.76	2.25
Beaches, dunes and sand	plains	51.21	0.12
Sparsely vegetated areas		69.23	0.16
Wetlands		2 274.89	5.22
Meadows		808.89	1.86
Inland wetlands		205.66	0.47
Peat bogs		875.60	2.01
Salt marshes		384.74	0.88
Water bodies		670.59	1.54
Lakes		616.49	1.42
Stream width 8-12 metres		49.42	0.11
Reeds		0.34	0.00
Fish farms		4.34	0.01
Unclassified		682.65	1.57

Note: The figures are based on different primary data covering the period from the end of the 1980s to the middle of the 1990s. Due to different compilation methods figures deviate from figures in table 1. The Primary data are the *land use map; Area Information System* (The Ministry of Environment). Further information can be obtained from: www.dmu.dk. The figures are a revision (not an update) of the collected data. The National Environmental Research Institute conducted the revision in 2001. The classification is based on the three-digit *CORINE land cover nomenclature*, as a fourth number is added for national purposes.

Source: National Environmental Research Institute

— www.dmu.dk

 $^{^{1}}$ Include city centres, human locality areas with low buildings, human locality areas with high buildings, built-up areas in rural areas and industrial areas. Roads are excluded.

Table 5 Denmark's largest lakes									
Lake's name	Location	1999-2002 2006-2010		Lake's name	Location	1999-2002 2006-2010			
		km ² -	km²				km²		
Arresø	Sjælland	39.5	39.6	Søndersø	Lolland	8.4	8.0		
Esrum Lake	Sjælland	17.4	17.4	Tystrup Lake	Sjælland	6.7	6.7		
Mossø	Østjylland	16.6	16.5	Julsø	Østjylland	5.8	5.6		
Stadil Fjord ¹	Vestjylland	17.3	16.2	Tømmerby Fjord	Nordjylland	6.0	5.7		
Saltbæk Vig ¹	Sjælland	16.1	15.9	Ulvedybet	Nordjylland	5.9	5.5		
Tissø	Sjælland	12.7	12.5	Tange Lake	Vestivlland	5.5	5.4		
Furesø	Sjælland	9.3	9.4	Lund Fjord	Nordjylland	5.1	5.1		
Skanderborg Lake	Østjylland	8.6	8.5	•	.,				

¹ Area of brackish water.

■ www.kms.dk

Table 6	N	Vleteo	rologi	cal con	dition	ıs							
	Jan.	Feb.	Marts	April	Maj	Juni	Juli	Aug.	Sept.	Okt.	Nov.	Dec.	Året
Mean temperature							– °C —						
Normal (1961-1990)	0.0	0.0	2.1	5.7	10.8	14.3	15.6	15.7	12.7	9.1	4.7	1.6	7.7
2010	-3.2	-2.2	2.8	7.0	9.4	13.9	18.7	16.2	12.6	8.7	2.9	-3.9	7.0
Average daily temperature													
Normal (1961-1990)	2.0	2.2	4.9	9.6	15.0	18.7	19.8	20.0	16.4	12.1	7.0	3.7	10.9
2010	-1.3	-0.4	5.7	10.9	13.0	18.0	23.3	20.1	16.2	11.6	4.9	-1.2	10.1
Average nightly temperature													
Normal (1961-1990)	-2.9	-2.8	-0.8	2.1	6.5	9.9	11.5	11.3	9.1	6.1	2.3	-0.7	4.3
2010	-5.6	-4.7	-0.5	3.4	6.0	9.8	14.3	12.4	9.0	5.2	0.7	-7.6	3.6
Maximum temperature													
1874-2010 Temp.	12.4	15.8	22.2	28.6	32.8	35.5	35.3	36.4	32.3	24.1	18.5	14.5	36.4
Measured during the years	2005	1990	1990	1993	1892	1947	1941	1975	1906	1978	1968	1953	1975
2010	4.9	7.2	17.7	22.4	24.9	28.3	34.1	26.4	22.2	20.1	13.5	7.6	34.1
Minimum temperature													
1874-2010 Temp.	-31.2	-29.0	-27.0	-19.0	-8.0	-3.5	-0.9	-2.0	-5.6	-11.9	-21.3	-25.6	-31.2
Measured during the years 2010	1982 -18.0	1942 -16.5	1888 -19.1	1922 -4.5	1900 -3.1	1936 2.2	1903 5.6	1885 3.6	1886 0.1	1880 -4.4	1973 -11.8	1981 -23.0	1982 -23.0
	-10.0	-10.5	-13.1	-4.5	-3.1				0.1	-4.4	-11.0	-23.0	-23.0
Degree-days							egree-days						
Normal (1961-1990)	522	491	461	337	198	84	43	47	128	243	361	469	3 382
2010	625	537	441	300	236	97	6	39	131	259	423	648	3 742
Precipitation							– mm. –						
Normal (1961-1990)	57	38	46	41	48	55	66	67	73	76	79	68	712
2010	29	41	33	27	64	52	69	124	73	85	91	40	726
Bright sunshine, all DK							– hours —						
Normal (1961-1990)	43	69	110	162	209	209	196	186	128	87	54	43	1 495
2010	62	52	127	198	189	248	247	151	146	109	58	81	1 669
Summer days (max. >25°)							– days —						
Normal (1961-1990)	0.0	0.0	0.0	0.0	0.2	1.9	2.6	2.3	0.1	0.0	0.0	0.0	7.2
2010	0.0	0.0	0.0	0.0	0.0	0.9	7.9	0.7	0.0	0.0	0.0	0.0	9.5
Frost days (min. <0°)													
Normal (1961-1990)	19.0	19.0	15.0	6.6	0.7	<	0.0	0.0	0.2	1.8	7.3	15.0	84.0
2010	30.8	24.3	14.1	2.5	0.5	0.0	0.0	0.0	0.0	3.1	12.4	30.7	118.4
Ice days (max. <0°)	0.6	7.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.0	22.0
Normal (1961-1990)	8.6	7.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.0	23.0
2010	22.0	15.8	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.8	19.8	65.6
Precipitation days (R ³ 0.1 mm		13.0	140	12.0	12.0	12.0	12.0	12.0	15.0	16.0	10.0	170	174 ^
Normal (1961-1990)	17.0 12.2	13.0	14.0 11.9	12.0 10.5	12.0 13.3	12.0 9.8	13.0 13.9	13.0 18.8	15.0 14.9	16.0 16.3	18.0 21.5	17.0 19.1	171.0
2010	12.2	14.8	11.9	10.5	13.3	9.0	13.9	10.0	14.9	10.5	21.5	19.1	177.0
Days with snow	7.0	<i>C A</i>	F 3	2.6	0.3	0.0	0.0	0.0	0.0	0.1	2.2	F 0	20.0
Normal (1961-1990)	7.6	6.4	5.3	2.6	0.2	0.0	0.0	0.0	0.0	0.1	2.3	5.8	30.0
2010	10.6	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.1	12.0	43.0

Note 1: *Degree days* are used as a measurement for heating needs in the heating season (1 September - 31 May). Degree days are shade-temperature days.

Note 2: < means less than 0.1, but greater than 0.0.

Source: Danmarks Meteorologiske Institut \sqsubseteq www.dmi.dk