BULLETIN No. 352 SEPTEMBER 2015



An rare moon event appeared in the Irish skies on the 28th of September. Two things happened concurrently; a lunar eclipse where the Earth cast its whole shadow over the moon and a 'supermoon' where the full moon was at its closest point to Earth. These two occurrences together have not been viewable in Ireland since 1982. The total eclipse lasted from 3.11am till 4.23am, with the picture above taken at this time in Cork city with the cross on St. Joseph's SMA Church, Wilton, in the foreground. (Picture courtesy Irish Examiner, Photographer Denis Minihane)

COOL EVERYWHERE; HEAVY RAINFALL AT TIMES IN PLACES

All monthly mean air temperatures were below their LTA (Long-Term Average) with stations reporting deviations from normal of at least -0.2°C. Differences from LTA were as much as -1.4°C at four stations located in the East, with these stations reporting their coolest September conditions in seven to 29 years. The majority of highest maxima were reported between the 8th and 10th and ranged from 17.3°C at both Dublin Airport and Arklow (Ballyrichard Hse), Co Wicklow their lowest September maxima since the stations opened in 1942 and 1984, respectively





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or free online at www.met.ie Data analysis based on all available data and is correct at time of publication. For more information or for data enquires e-mail: enq@met.ie

> Data and graphics © Met Éireann



Around mid-month, flooding occurred in parts of the South as some places recorded at least three consecutive very wet days (rainfall greater than 10.0 mm). Lombardstown, Co Cork was affected with fields flooding (above). Nearby rainfall station located at Lombardstown (Drompeach) recorded four days with heavy rainfall; 10.1 mm on the 10th, 17.0 mm on the 11th, 15.0 mm on the 12th and 25.6 mm on the 14th, leading to over two-thirds of its monthly total of 98.4 mm being recorded (94% of its LTA). (Picture courtesy Irish Examiner, Photographer Des Barry)

to 21.4°C at Glengarriff, Co Cork. The majority of lowest minima were on the 6th, 16th, 25th and 30th and ranged from 0.6°C at Straide, Co Mayo to 8.2°C at Sherkin Island, Co Cork.

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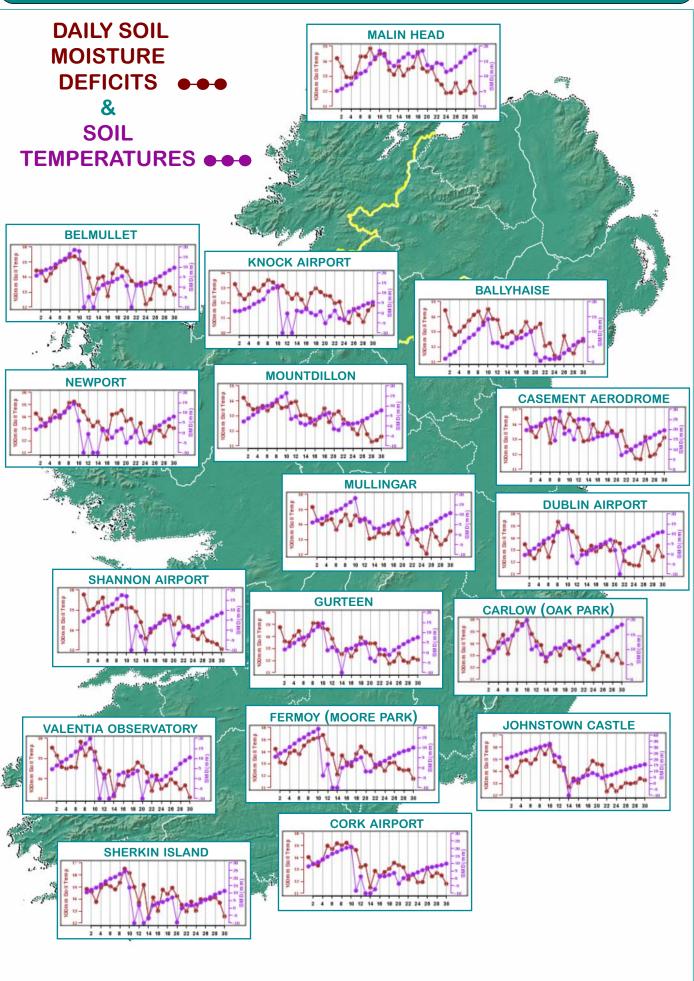
Monthly rainfall comparisons to LTAs were variable, with the majority of stations reporting below average rainfall. Percentage of LTA values ranged from 20% at Ballinatona Mountains, Co Wicklow with a monthly total of 20.0 mm to 200% at Goleen, Co Cork with 228.5 mm. Monthly rainfall totals in low-lying areas (regions below 200 m) were up 259.0 mm at Kylemore Abbey Gardens, Co Galway while the overall highest monthly accumulation was at a gauge in the Cummeragh Mountains, Co Kerry with 304.0 mm (107% of LTA). The wettest days/highest daily rainfall for stations were mainly the 10th, 11th and 13th, with around 75% of stations attributing up to two-thirds of their monthly total to their highest daily rainfall. Glenealy (Kilmacurragh Park), Co Wicklow reported a highest daily fall of 38.6 mm on the 11th, its wettest September day in five years and nearly three-quarters of its monthly total of 52.0 mm (55% of LTA). Camus, Co Galway reported a daily fall of 100.9 mm also on the 11th, over half of its monthly total of 191.4 mm (162% of LTA) and its wettest day on record since the station opened in 2001. The number of very wet

days (days with 10 mm or more) ranged from none in parts of the East six in areas in Kerry, Wicklow and Galway.

Percentage of LTA sunshine values were variable and were lowest at Knock Airport, Co Mayo with 66% (lowest monthly sunshine total of 69.7 hours) and highest at Clonroche (Knoxtown), Co Wexford with 108% (monthly sunshine total of 141.8 hours). The month's highest daily sunshine was at Valentia Observatory, Co Kerry on the 6th with 11.8 hours. The number of dull days (days with less than 0.5 hours of sunshine) were up to eight at both Knock Airport and Shannon Airport, Co Clare.

Wind and elements: Monthly mean wind speeds ranged from 5.0 knots (9.3km/h) at both Mullingar, Co Westmeath and Ballyhaise, Co. Cavan to 13.1 knots $(24.3 \ km/h)$ at Malin Head, Co Donegal. No gale-force or stronger winds were recorded during the month with Malin Head recording the highest 10-minute mean wind speeds of 32 knots (59km/h) on the 12th. Gusts greater than 34 knots $(63 \ km/h)$ were reported on eight days mostly mainly along the Atlantic Coast. The month's highest gust was 44 knots $(82 \ km/h)$ at Finner, Co. Sligo also on the 12th. Fog was reported on eight days mainly at a small selection of stations in the Midlands and Northwest.

SOIL

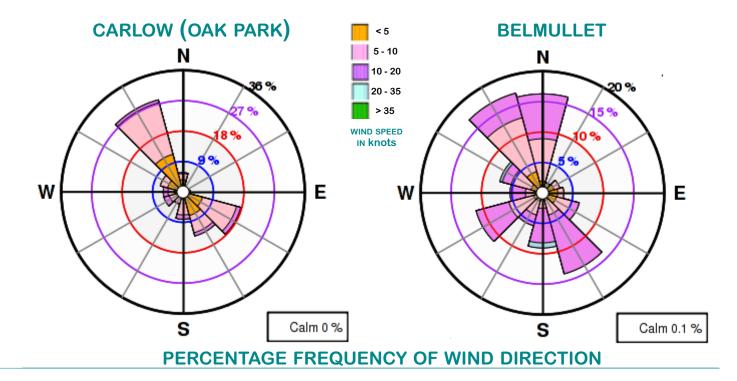


WIND & ELEMENTS

4

SEPTEMBER 2015

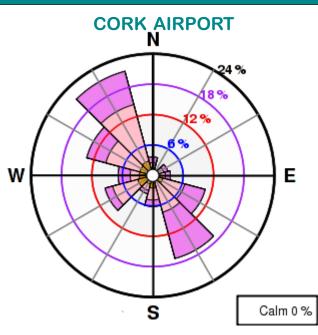
				WIND	(kn	ots)					EL	EMEN	ΓS (ι	no.of d	days)
COUNTY / STATION	MEAN	MAX. 10-		MEAN DATE/HOUR	DIR.		GUST DATE/TIME	DAYS GALES		HOURS WITH	SNOW	SNOW LYING	наш		FOG
CO CARLOW	51 220	DIN. O		DAIL/1001				GALES	6031 % 34KN013	GUST 2 34KNUTS	011011				100
OAK PARK	6.1	260°	20	24/12	260°	30	24/1440	0	0	0					
CO CAVAN BALLYHAISE	5.0	130°	15	10/11	140°	25	10/1151	0	0	0					
CO CLARE SHANNON AIRPORT	7.8	260° 150°	22 22	24/11 28/14	260°	34	24/1048	0	1	1	0	0	0	0	1
CO CORK FERMOY (MOORE PARK) SHERKIN ISLAND ROCHE'S POINT	5.3 10.7 10.5	140° 300° 300° 180°	15 30 23 23	10/14 11/14 14/ 1 20/11	270° 280° 200°	26 42 32	24/1409 11/1444 20/1148	0 0 0	0 2 0	0 3 0					
CORK AIRPORT	8.7	340°	23	4/16	120°	30	11/1549	0	0	0	0	0	0	0	3
CO DONEGAL MALIN HEAD FINNER	13.1 8.8	220° 240°	32 30	12/11 12/ 7	230° 250°	43 44	12/1408 12/ 708	0	3 3	22 10					
<i>CO DUBLIN</i> DUBLIN AIRPORT	9.0	130°	22	12/ 2	130°	30	12/ 51	0	0	0	0	0	0	0	1
CASEMENT AERODROME	6.8	260° 260° 250°	22 20 20	24/16 23/13 24/14	260° 140° 240°	30 28 28	24/1532 11/2236 12/1133	0	0	0	0	0	0	0	2
CO GALWAY MACE HEAD	12.5	290°	30	12/ 1	250°	38	23/1737	0	6	16					
ATHENRY	6.1	300° 280°	30 19	21/19 11/23	260°	29	24/1407	0	0	0					
CO KERRY VALENTIA OBSERVATORY	8.1	330° 280°	20 20	13/19 14/18	140°	33	28/1203	0	0	0					
CO MAYO CLAREMORRIS BELMULLET NEWPORT KNOCK AIRPORT	6.6 9.6 8.3 8.3	280° 180° 310° 330°	18 26 24 22	12/ 2 20/ 5 12/ 1 4/ 3	270° 350° 320° 270°	28 36 37 33	24/ 538 13/2152 12/ 110 12/ 233	0 0 0 0	0 3 1 0	0 7 1 0	0				10
CO MEATH DUNSANY (GRANGE)	6.2	230°	18	12/12	230° 240°	26 26	12/1226 23/1401	0	0	0					
CO ROSCOMMON MOUNTDILLON	5.7	130° 260°	17 17	10/ 8 24/13	270°	29	24/1353	0	0	0					
CO TIPPERARY GURTEEN (AG COLLEGE)	6.8	280°	20	24/12	280°	29	24/1224	0	0	0					
CO WESTMEATH MULLINGAR	5.0	150°	15	28/13	280° 150°	22 22	24/1227 28/1001	0	0	0					
CO WEXFORD JOHNSTOWN CASTLE	6.9	280°	19	21/20	300°	27	21/2034	0	0	0					

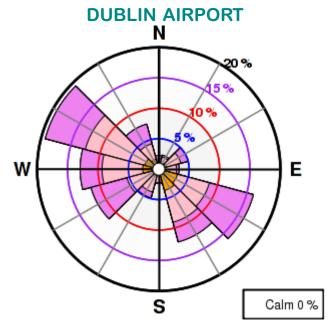


SEPTEMBER 2015

WIND & ELEMENTS

5

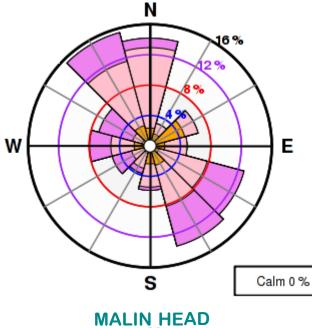




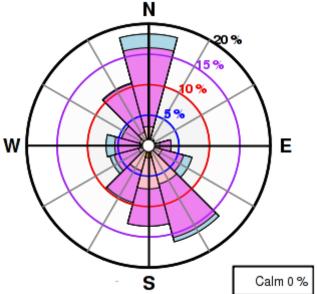
SHANNON AIRPORT N W

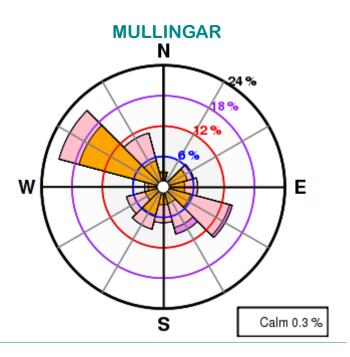
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Calm 0 %



VALENTIA OBSERVATORY

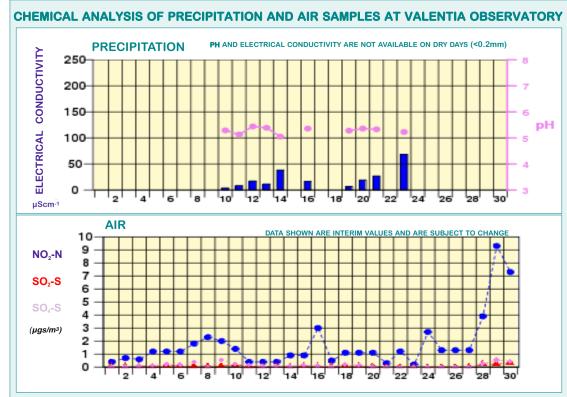




LABORATORY

12.3

SEPTEMBER 2015

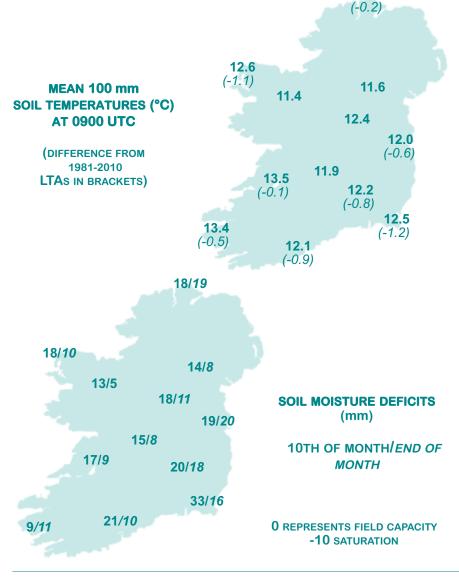


Acid rain occurs when pollutants combine with moisture in the air to form sulphuric or nitric acid. pH is the simplest way of measuring the acidity of precipitation. Usually pH of 7.00 is considered neutral but this is not the case in rainfall samples. Pure water in the atmosphere has an equilibrium pH value of 5.65 at 20°C owing to carbon dioxide in the air dissolving to form carbonic acid. Any value below pH 5.65 is considered acid while any value above is considered alkaline.

Conductivity measures the total ion activity in the rainfall, i.e. the higher the conductivity the greater the number of ions.

Sulphur dioxide and sulphate in air contribute to the formation of sulphuric acid; nitrate in air contributes to the formation of nitric acid.





COUNTY/STATION	100 mm	200 mm	300 mm
CO CARLOW			
CARLOW (OAK PARK)	12.2	12.8	13.0
CO. CAVAN			
BALLYHAISE	11.6	12.5	13.6
CO CLARE			
SHANNON AIRPORT	13.5	14.1	14.8
CARRON	12.4		13.3
CO CORK			
ROCHE'S POINT	12.6		
FERMOY (MOORE PARK)	12.2	12.7	13.4
CORK AIRPORT	12.1	13.1	13.9
SHERKIN ISLAND	13.1	13.5	14.5
BALLINCURRIG (PEAFIELD)	12.5	13.0	13.6
CO DONEGAL			
MALIN HEAD	12.3	12.6	13.3
CO DUBLIN			
PHOENIX PARK	12.1	13.5	13.7
DUBLIN AIRPORT	11.6	12.5	13.3
CASEMENT AERODROME	12.0	12.6	13.4
CO KERRY			
VALENTIA OBSERVATORY	13.4	14.1	14.4
CO LIMERICK			
MOUNTRUSSELL	11.9	12.9	
CO MAYO			
BELMULLET	12.6	13.7	14.3
NEWPORT (FURNACE)	12.3	12.8	13.4
STRAIDE	13.2		
KNOCK AIRPORT	11.4	11.9	12.3
CO MEATH			
WARRENSTOWN	1	13.6	
DUNSANY (GRANGE)	11.6	13.0	13.6
CO TIPPERARY			
GURTEEN (AG COLLEGE)		12.5	12.8
FETHARD (PARSONSHILL)	12.7	13.6	
CO WATERFORD			
DUNGARVAN (CARRIGLEA)		14.2	14.5
CO WESTMEATH			
MULLINGAR	12.4	13.3	14.2
CO. WEXFORD			
JOHNSTOWN CASTLE		12.9	
JFK PARK	13.6	14.2	15.8
CLONROCHE	13.2	13.7	14.2
CO WICKLOW			
ASHFORD (CRONYKEERY)	12.9	13.3	14.6

SEPTEMBER 2	015						AGM	IE	Т									7
10-DAY VALL			INFA (mm						TEMP (°	ERA C)	ATU	RE						SHINE urs)
SELECT	DLOGICAL		ш				FRAGF			FROST	> 4.4°C	> 10.0°C	ss-min."		т 0900н	т 0900н	HOURS	ш
STATIO	NS PERIOD	AMOUNT	% OF AVERAGE	RAIN DAYS WET DAYS	MEAN MAX.	MEAN MIN.	mean daily Dief From Avfrage		LOWEST MIN. Date	days with air frost	DEGREE DAYS > 4.4°C	DEGREE DAYS > 10.0°C	LOWEST "GRASS-MIN."	DATE DAVS WITH CD	FROST MEAN 10CM AT 0900H	mean 30cm at 0900h	TOTAL NO. OF HOURS	% OF AVERAGE
CO CORK	1-10	5.0		1 1	16.3	9.8	13.1		7.6 6	0	86	32	5.9	6 0	13.2	2 14.5	40.7	
BALLINCURRIG	11-20	81.6		7 6		10.2	12.9		7.1 17	0	85	31		17 C			23.8	
(PEAFIELD)	21-END	2.4		32	16.2	8.9	12.6		7.0 25	0	82	29		25 C			52.8	
	MONTH	89.0	87	11 9	16.1	9.6	12.8 -0	. 3	7.0 25	0	253	92	4.5 3	17 0	12.5	5 13.6	117.3	89
CO DONEGAL	1-10	9.8		4 4	16.2	9.6	12.9		8.6 2	0	85	31	6.7	6 C	-	-	-	
GLENTIES HATCH	ERY 11-20	29.0		77	15.3	9.6	12.5		4.9 16	0	81	28	1.4	16 C	-	-	-	
	21-END	27.2		4 4	16.3	7.9	12.1		3.5 30	0	77			30 1		-	-	
	MONTH	66.0	48	15 15	15.9	9.1	12.5 -0	. 3	3.5 30	0	243	85	-0.2	30 1	-	-	-	-
CO KERRY	1-10	23.2		4 1	17.5	8.9	13.2		3.9 6	0	88	35	3.5	6 C	-	-	50.4	
ARDFERT	11-20	107.7		87	15.7	10.1	12.9		7.1 16	0	85	30	6.0	16 C	-	-	13.4	
(LISCAHANE)	21-END	12.6		32	17.1	8.9	13.0		4.9 30	0	86	33		30 C		-	57.4	
	MONTH	143.5	160	15 10	16.7	9.3	13.0 -0	. 8	3.9 6	0	259	98	3.5	6 0	-	-	121.2	98
CO MONAGHAN	1-10	0.7		1 0	16.2	9.6	12.9		7.1 6	0	85	31	_	_	_	_	_	
CARRICKMACROSS	11-20	30.7		54	16.1	8.2	12.2		2.4 16	0	78	27	-	-	-	-	-	
	21-END	9.1		31	16.2	6.8	11.5		3.4 27	0	71	23	-	-	-	-	-	
	MONTH	40.5	56	95	16.2	8.2	12.2 -0	. 6	2.4 16	0	234	81	-	-	-	-	-	-
CO WATERFORD	1-10	0.5		1 0	17.7	9.8	13.8		5.5 6	0	94	41	3.0	2 0	-	15.3	52.5	
DUNGARVAN	11-20	74.9		65	17.7	9.9	13.8		8.5 19	0	94	40	4.4	16 C	-	14.7	27.9	
(CARRIGLEA)	21-END	1.9		2 1	17.1	8.2	12.7		5.5 25	0	82	31	0.92	25 C	-	13.6	56.9	
	MONTH	77.3	83	96	17.5	9.3	13.4 -0	. 5	5.5 6	0	270	112	0.9 2	25 0	-	14.5	137.3	102
CO WEXFORD	1-10	0.0		0 0	16.9	9.3	13.1		5.9 2	0	87	34	3.2	6 0	14.5	5 16.4	40.9	
JFK PARK	11-20	64.6		65	16.4	10.0	13.2		5.5 17	0	88	33		17 C			31.0	
	21-END	4.2		1 1	16.7	8.5	12.6		5.5 25	0	82	30	4.3 2	25 C	12.5	15.3	59.4	
	MONTH	68.8	81	76	16.6	9.3	13.0 -0	. 5	5.5 17	0	257	97	3.2	6 0	13.6	5 15.8	131.3	100
CO WICKLOW	1-10	2.2		1 1	16.8	9.4	13.1		6.8 6	0	87	33	-0.5	8 1	13.9	15.2	48.3	
ASHFORD	11-20	52.6		54	16.6	9.0	12.8		5.9 16	0	84	32		16 1			26.7	
(CRONYKEERY)	21-END	1.2		1 1	17.0	6.3	11.7		3.7 27	0	73			25 5			66.3	
	MONTH	56.0	74	76	16.8	8.2	12.5 -1	.1	3.7 27	0	244	91	-2.4	25 7	12.9		141.3	104

P.E. (PEN	MAN)	GLOE	BAL SOI (MJ/	LAR RAD m ²)	MONTHLY EVAPORATION (mm)				
STATION /COUNTY	TOTAL (mm)	STATION /COUNTY	1ѕт-10тн	11тн-20тн	21ST-END	TOTAL	FROM CLA	SS A P	AN
CO CARLOW CARLOW (OAK PARK)	47	CO CARLOW CARLOW (OAK PARK)*	112.08	79.87	106.03	297.98		MONTHLY	MONTHLY
CO CAVAN BALLYHAISE CO CLARE	42	CO CAVAN BALLYHAISE*	108.70	81.57	109.51	299.78	COUNTY/ STATION	(mm)	(mm)
SHANNON AIRPORT CO CORK	47	CO CORK ROCHE'S POINT*	127.02	91.76	117.68	336.46	CO KERRY VALENTIA OBSERVATORY	148.7	78.3*
CORK AIRPORT <i>CO DONEGAL</i> MALIN HEAD	43 50	<i>CO DONEGAL</i> MALIN HEAD*	112.88	91.72	92.64	297.24	CO KERRY NORTH KERRY LANDFILL	N/A	N/A
CO DUBLIN DUBLIN AIRPORT	46	<i>CO DUBLIN</i> DUBLIN AIRPORT*	114.08	93.40	115.42	322.9	CO MAYO NEWPORT (FURNACE)	73.2	39.1
CASEMENT AERODROME CO KERRY VALENTIA OBS.	47 54	CO KERRY VALENTIA OBS.*	137.34	90.46	99.12	326.92	CO OFFALY DERRYGREENAGH	36.3	40.4
CO MAYO BELMULLET	48	CO MAYO BELMULLET*	124.55	79.97	94.5	299.02	CO WATERFORD DUNGARVAN (CARRIGLEA) CO WEXFORD	77.3	57.0
KNOCK AIRPORT <i>CO TIPPERARY</i> GURTEEN (AG. COLLEGE)	40 41	CO TIPPERARY GURTEEN (AG.COLLEGE) *	108.49	73.44	109.33	291.26	JFK PARK	68.8	54.5
CO WESTMEATH MULLINGAR	41	CO WESTMEATH MULLINGAR*	127.02	91.76	117.68	336.46	GLOBAL SOLAR RADIATION VAL * ARE PROVISIO		TATIONS MARKED
CO WEXFORD JOHNSTOWN CASTLE	49	CO WEXFORD JOHNSTOWN CASTLE*	130.55	108.57	126.55	365.67	* ARE FROM AUT RAINFALL VALUES MARKE	TOSOL INSTI	

8

DAILY WEATHER

Tuesday 1st: Shower activity picked up during the morning, firstly in the Northwest and West but spread countrywide by mid-afternoon. The showers gradually died out leaving a mix of sunshine and cloud everywhere, a little cool for early September. Winds were light to moderate, northwesterly.

Rainfall: Nil at numerous locations to 8.8 mm at Creeslough (Brockagh) Temperature: Lowest max. 13.6°C at Belderrig, highest max. 18.9°C at Dunmoe (Craigs Lane). Lowest min. 6.9°C at Ballymore, highest min. 11.5°C at Dooks Sunshine: 3.7 hours at Dungarvan (Carriglea) to 8.2 hours at Arklow (Ballyrichard Hse)

Wednesday 2nd: There were a few light showers near western and northern coasts overnight but it was generally dry. A scattering of light showers developed countrywide during the late morning and afternoon, dying out later. Cool for early September. Winds were moderate to fresh, northwesterly.

Rainfall: Nil at numerous locations to 4.4 mm at Termon (Goldrum)

Temperature: Lowest max. 12.5°C at Knock Apt, highest max. 18.2°C at Glengarriff (Ilnacullin). Lowest min. 5.4°C at Mallow (Hazelwood), Mallow (Spa House), highest min. 11.7°C at Valentia Obs

Sunshine: 0.2 hours at Clonroche (Knoxtown) to 6.5 hours at Dungarvan (Carriglea)

Thursday 3rd: A mostly cloudy day, with showers and patches of drizzle countrywide, but becoming drier by afternoon. Cool as well. Winds were moderate to fresh, north to northwest.

Rainfall: Nil at numerous locations to 2.5 mm at Galtee Mountains (Skeheenarinky) Temperature: Lowest max. 12.7°C at Knock Apt, highest max. 17.6°C at Dungarvan (Carriglea). Lowest min. 6.9°C at Ballymore, highest min. 10.5°C at Sligo Airport Sunshine: Nil at Casement to 1.6 hours at Ballyshannon (Cathleen's Fall)

Friday 4th: It was a mostly cool and cloudy day, however there were some bright spells in parts of the South. It was mainly dry everywhere with just light rain and drizzle affecting northern and south western coastal regions. Winds were moderate to fresh, northwesterly.

Rainfall: Nil at numerous locations to 2.5 mm at Illies (Pollan Dam Waterworks) Temperature: Lowest max. 13.4°C at Malin Head, highest max. 20.0°C at Glengarriff (Ilnacullin). Lowest min. 8.3°C at Dundalk (Annaskeagh WW), highest min. 12.2°C at Valentia Obs

Sunshine: 0.6 hours at Belmullet to 5.7 hours at Dungarvan (Carriglea)

Saturday 5th: Some patchy overnight rain followed by some patchy fog and mist gave way to a cool dry day with good spells of sunshine for most parts with a cool northerly breeze. Winds were light to moderate, north to northwest.

Rainfall: Nil at numerous locations to 1.4 mm at Eskeragh

Temperature: Lowest max. 12.5°C at Raphoe (Tops), highest max. 20.1°C at Glengarriff (Ilnacullin). Lowest min. 6.9°C at Dublin Apt, highest min. 11.8°C at Valentia Obs Sunshine: 6.4 hours at Ballyshannon (Cathleen's Fall) to 10.2 hours at Dungarvan (Carriglea)

Sunday 6th: Mainly dry overnight with some good clear spells, a mainly cool and cloudy day with some sunny spells, best of the sunshine and temperatures in the South. Winds were light, northwesterly. Rainfall: Nil at numerous locations to 3.5 mm at Falcarragh (Lough Altan) Temperature: Lowest max. 12.8°C at Belderrig, highest max. 19.2°C at Glengarriff (Ilnacullin). Lowest min. 2.5°C at Listowel (Bunaghara), highest min. 11.4°C at Belderrig Sunshine: Nil at numerous locations to 11.2 hours at Cork Apt

Monday 7th: Mainly dry overnight with some good clear spells, giving a cloudy day with little sunshine and cool temperatures, best of the sunshine in the Southwest. Winds were light, variable.

Rainfall: Nil at numerous locations to 1.3 mm at Gweedore Weir

Temperature: Lowest max. 12.2°C at Knock Apt, highest max. 18.0°C at Glengarriff (Ilnacullin), Killarney (Muckross Hse). Lowest min. 6.0°C at Mallow (Spa House), highest min. 12.0°C at Sherkin Island

Sunshine: Nil at numerous locations to 3.3 hours at Ashford (Cronvkeerv)

Tuesday 8th: There was little rainfall recorded, mainly dry everywhere with good spells of sunshine also. Temperatures were generally in the high teens and were over 20°C at a few stations but it was a little cooler on exposed southern coasts. Winds were light to moderate, southeasterly. Rainfall: Nil at numerous locations to 1.1 mm at Bruckless

Temperature: Lowest max. 16.2°C at Arklow (Ballyrichard Hse), highest max. 21.1°C at Listowel (Bunaghara). Lowest min. 4.6°C at Casement, highest min. 12.6°C at Sherkin Island Sunshine: 0.0 hours at Belmullet to Nil at Belmullet to 11.7 hours at Ardfert (Liscahane)

Wednesday 9th: Dry in most places with sunny spells. Temperatures in mid to high teens everywhere. Winds were light to moderate, southeasterly. Rainfall: Nil at numerous locations to 1.3 mm at Lombardstown (Drompeach) Temperature: Lowest max. 16.0°C at Slieve Bloom Mtns (Nealstown), highest max. 21.3°C at Glengarriff (Ilnacullin). Lowest min. 5.9°C at Ardee (Boharnamoe), highest min. 15.2°C at Valentia Obs

Sunshine: 1.2 hours at Knock Apt to 8.3 hours at Ardfert (Liscahane)

Thursday 10th: Most places were dry with some sunny spells. Later in the evening cloud increased in the West and Southwest and there was light rain in those areas. In the evening it turned heavier and towards nightfall moved slowly eastwards. Winds were moderate, southeasterly.

Rainfall: Nil at numerous locations to 74.7 mm at Ballvdesmond

Temperature: Lowest max. 16.1°C at Cork Apt, highest max. 21.4°C at Glengarriff (Ilnacullin). Lowest min. 8.2°C at Athy (Chanterlands), highest min. 15.3°C at Valentia Obs Sunshine: Nil at Dungarvan (Carriglea) to 7.0 hours at Dublin Apt

Friday 11th: Heavy rain in West and South overnight, but remained dry further East. The rain continued to move slowly eastwards during the morning, and reached east coasts by mid-afternoon, with some very heavy falls in places. A clearance in the Southwest by later evening, but rain continued over much of the country for the evening and night, again with some heavy falls in places. Winds were moderate, variable in direction. Rainfall: 3.3 mm at Carrigans-Kildrum to 102.6 mm at Leenane (Glanagimla) Temperature: Lowest max. 13.5°C at Ballycroy (Knockmoyleen), highest max. 19.0°C at Dungarvan (Carriglea). Lowest min. 10.7°C at Ashford (Cronykeery), highest min. 15.3°C at Roches Pt

Sunshine: Nil at numerous locations to 1.0 hours at Casement

Saturday 12th: During the late morning scattered showers in the West and Southwest spread across the country and continued throughout the day. In the afternoon there were some spells of good sunshine in places. The showers began to die out after nightfall. Winds were fresh to strong, southwesterly.

Rainfall: Nil at numerous locations to 30.2 mm at Ventry (The Boat Slip) Temperature: Lowest max. 12.3°C at Belderrig, highest max. 19.0°C at Cahore (Kilmichael Hse), Dungarvan (Carriglea), Mullagh (Carrowlagan). Lowest min. 8.4°C at Cork Apt, Fethard (Parsonshill), highest min. 13.3°C at Malin Head

Sunshine: 0.5 hours at Ballyshannon (Cathleen's Fall) to 8.8 hours at Dungarvan (Carriglea)

Sunday 13th: Overnight scattered rain outbreaks spread gradually northwards through the day with a clearance following in the East, but some heavy and intense rain and flooding continued in the West and Southwest of the country. Winds were light to moderate, variable in direction.

Rainfall: Nil at numerous locations to 125.1 mm at Moyard (Shanbolard) Temperature: Lowest max. 13.3°C at Carron, highest max. 18.4°C at Glengarriff (Ilnacullin). Lowest min. 3.8°C at Mt Dillon, highest min. 12.3°C at Sherkin Island Sunshine: Nil at numerous locations to 4.8 hours at Arklow (Ballyrichard Hse)

Monday 14th: Heavy, thundery overnight rain particularly in the West and Southwest, lingered and spread countrywide by afternoon. Particularly heavy and thundery, through the day in the South of the country, before clearing towards midnight. Winds were light to moderate, north to northwest.

Rainfall: Nil at numerous locations to 30.7 mm at Foulkesmills (Longraigue) Temperature: Lowest max. 10.7°C at Mt Russell, highest max. 16.9°C at Finner, Ardtarmon. Lowest min. 7.3°C at Markree, Durrow, highest min. 12.1°C at Malin Head Sunshine: Nil at numerous locations to 3.3 hours at Belmullet

SEPTEMBER 2015

DAILY WEATHER

Tuesday 15th: Some patchy light rain overnight giving way to a mainly dry day with scattered showers, some heavy, affecting the South of the country until evening. Some good sunny spells in the South, quite cloudy elsewhere. Winds were light, northwesterly.

Rainfall: Nil at numerous locations to 18.1 mm at Kenmare (Derreen) Temperature: Lowest max. 12.9°C at Knock Apt, highest max. 18.5°C at Sherkin Island. Lowest min. 6.6°C at Mallow (Spa House), highest min. 12.1°C at Ashford (Cronykeery) Sunshine: 0.5 hours at Straide to 7.6 hours at Dublin (Glasnevin)

Wednesday 16th: Some clear spells overnight with patches of mist, fog and some ground frost giving way to a mainly dry day with good sunny spells. Some light showers on coastal regions of Connacht, Leinster and Munster. Winds were light, southwest to northwest.

Rainfall: Nil at numerous locations to 6.9 mm at Kylemore Abbey Gardens Temperature: Lowest max. 13.1°C at Ballycroy (Knockmoyleen), highest max. 18.2°C at Glengarriff (Ilnacullin). Lowest min. 0.6°C at Straide, highest min. 11.0°C at Valentia Obs Sunshine: 0.7 hours at Ballincurrig (Peafield), Belmullet to 6.9 hours at Dublin Apt

Thursday 17th: Some isolated showers overnight mainly in the West and North. Fog patches inland cleared early to isolated showers in the West that becoming more widespread through the day. Some good sunny spells also. Winds were light, southwest to northwest.

Rainfall: Nil at numerous locations to 10.5 mm at Dunmanway (Demesne) Temperature: Lowest max. 14.2°C at Belderrig, highest max. 19.4°C at Ballincurrig (Peafield). Lowest min. 2.8°C at Kilkenny (Greenshill), highest min. 11.1°C at Valentia Obs Sunshine: 0.4 hours at Knock Apt to 9.3 hours at Sherkin Island

Friday 18th: It was a mainly cloudy day with some small pockets of sunshine in places. It was a mild day everywhere. Winds were light to moderate, northwesterly.

Rainfall: Nil at numerous locations to 6.5 mm at Dooagh (Water Treatment Plant) Temperature: Lowest max. 14.3°C at Knock Apt, highest max. 18.2°C at Ardee (Boharnamoe). Lowest min. 6.5°C at Cashel (Ballydoyle Hse), highest min. 12.8°C at Sherkin Island Sunshine: Nil at numerous locations to 3.7 hours at Belmullet

Saturday 19th: The day was mainly dry and cloudy, just the odd shower in the Southwest. The evening and night continued mostly dry with clear periods, but some drizzle in parts of South and West. Winds were light, southeast to southwest.

Rainfall: Nil at numerous locations to 24.2 mm at Roads

Temperature: Lowest max. 13.5°C at Knock Apt, highest max. 19.3°C at Waterford (Tycor). Lowest min. 2.9°C at Mt Dillon, highest min. 13.0°C at Sherkin Island Sunshine: Nil at Ardfert (Liscahane) to 5.8 hours at JFK Park

Sunday 20th: A band of rain moved into the West during the early morning and moved eastwards as the day progressed, bringing some heavy falls of rain to all parts of the country. It was a dull and overcast day with little or no sunshine. Winds were light to moderate, south to southwest. Rainfall: Nil at numerous locations to 26.2 mm at Goleen

Temperature: Lowest max. 13.5°C at Slieve Bloom Mtns (Nealstown), highest max. 19.0°C at Dungarvan (Carriglea). Lowest min. 6.5°C at Edenderry (Ballinla), highest min. 13.7°C at Sherkin Island

Sunshine: Nil at numerous locations to 0.8 hours at Dublin (Glasnevin)

Monday 21st: There were some good spells of sunshine during the late morning and into the afternoon. An organised band of showers moved into the West and tracked eastwards, bringing with it some heavy falls. Winds were light to moderate, southwest to west.

Rainfall: 0.0 mm at Glencairn (Tourtane House) to 26.3 mm at Naas (C.B.S.) Temperature: Lowest max. 14.0°C at Glenties Hatchery, Slieve Bloom Mtns (Nealstown), highest max. 18.0°C at Waterford (Tycor). Lowest min. 7.5°C at Dundalk (Annaskeagh WW), Raphoe (Tops), highest min. 12.1°C at Sherkin Island

Sunshine: 1.8 hours at Ardfert (Liscahane) to 6.3 hours at Ballincurrig (Peafield)

Tuesday 22nd: A mainly dry day with some overnight scattered heavy showers dying out by the afternoon to give a cool but blustery day with some good spells of sunshine. Winds were light to moderate, northwesterly. Rainfall: Nil at numerous locations to 5.3 mm at Knocknagoshel (Meinleitrim) Temperature: Lowest max. 13.7°C at Knock Apt, highest max. 17.8°C at Glengarriff (Ilnacullin). Lowest min. 5.9°C at Claremorris, highest min. 11.2°C at Sherkin Island Sunshine: 5.9 hours at JFK Park to 9.3 hours at Arklow (Ballyrichard Hse)

Wednesday 23rd: Some overnight rain and drizzle in the Northwest spreading to all parts by morning before clearing eastwards. Another cool and blustery day, particularly on western coasts. Some scattered occasionally heavy showers moving in from the Northwest by late evening. Winds were moderate to fresh, southwesterly.

Rainfall: Nil at numerous locations to 16.4 mm at Ardnawark Barnesmore Temperature: Lowest max. 14.2°C at Knock Apt, highest max. 20.0°C at Cloyne (Lisanley). Lowest min. 5.2°C at Dundalk (Annaskeagh WW), highest min. 12.4°C at Sherkin Island Sunshine: 0.5 hours at Sherkin Island to 5.4 hours at Ardfert (Liscahane)

Thursday 24th: A showery and a breezy day. Most places had some showers but they passed through quickly dying out in the evening. Temperatures were a little low, but most areas had good spells of sunshine between the showers. Winds were fresh to strong, southwesterly. Rainfall: Nil at numerous locations to 10.8 mm at Carndonagh (Rocksmount II) Temperature: Lowest max. 12.6°C at Knock Apt, highest max. 17.3°C at Waterford (Tycor). Lowest min. 4.9°C at Dundalk (Annaskeagh WW), highest min. 11.4°C at Sherkin Island 11.4°C at Sherkin Island

Sunshine: 3.3 hours at Shannon Airport to 9.0 hours at Dublin Apt

Friday 25th: In the morning any patches of mist quickly cleared to a bright start with sunny spells. Cloud increased as the day went on but it remained mostly dry with just the odd light shower mainly in the West and North. Winds were light to moderate, southwesterly.

Rainfall: Nil at numerous locations to 4.6 mm at Derryhenny Doochary

Temperature: Lowest max. 13.1°C at Knock Apt, highest max. 18.0°C at Cahore (Kilmichael Hse), Dungarvan (Carriglea), Sherkin Island, Ballincurrig (Peafield). Lowest min. 2.9°C at Dundalk (Annaskeagh WW), highest min. 11.4°C at Mace Head

Sunshine: 0.3 hours at Newport (Furnace), Belmullet to 7.4 hours at Ballincurrig (Peafield)

Saturday 26th: It was a misty start to the day but the mist cleared quickly to give a dry mild day everywhere. There were good sunny spells mainly in the East and South with further west being rather cloudy. Winds were light, southeasterly.

Rainfall: Nil at numerous locations to 2.0 mm at Derryhenny Doochary Temperature: Lowest max. 13.8°C at Knock Apt, highest max. 18.7°C at Dunmoe (Craigs Lane). Lowest min. 5.5°C at Ardee (Boharnamoe), highest min. 12.7°C at Valentia Obs Sunshine: 0.1 hours at Straide, Belmullet, Knock Apt to 11.1 hours at Dublin Apt

Sunday 27th: A dry day, with good sunshine in places after mist and fog lifted, but a bit more cloud over western areas. The evening and night continued dry with sunny/clear periods. Winds were light, southeasterly. Rainfall: Nil at numerous locations to 0.4 mm at Moore Park Temperature: Lowest max. 15.5°C at Cork Apt, Slieve Bloom Mtns (Nealstown), highest max. 19.2°C at Ardee (Boharnamoe). Lowest min. 2.3°C at Mt Dillon, highest min. 13.5°C at Valentia Obs

Sunshine: 0.5 hours at Belmullet to 9.2 hours at Dublin Apt

Monday 28th: The day was dry with good sunshine countrywide. The evening and night continued dry with sunny/clear periods with some mist developing in places. Winds were light to moderate, southeasterly. Rainfall: Nil at numerous locations to 2.0 mm at Little Island. Temperature: Lowest max. 13.5°C at Sligo Airport, highest max. 19.8°C at Glengarriff (Ilnacullin). Lowest min. 1.1°C at Mt Dillon, highest min. 13.9°C at Sherkin Island Sunshine: 5.1 hours at Newport (Furnace) to 9.9 hours at Dublin Apt

Tuesday 29th: Overnight mist and fog patches cleared during the morning. It was another bright dry day, with good spells of sunshine for much of the country, but cloudier in the South and Southwest. Conditions remained unchanged into the night. Winds were light, southeasterly. Rainfall: Nil at numerous locations to 0.7 mm at Macroom (Renaniree) Temperature: Lowest max. 14.4°C at Cork Apt, highest max. 20.7°C at Ardtarmon. Lowest min. 1.7°C at Mt Dillon, highest min. 14.1°C at Sherkin Island Sunshine: Nil at Ballincurrig (Peafield) to 10.9 hours at Belmullet

Wednesday 30th: Early fog and mist lifted, leaving a dry day with good sunshine, especially in the West, a bit cloudier further East. The evening and night continued dry, with sunny/clear periods and mist returned. Winds were light, northeasterly.

Rainfall: Nil at numerous locations to 0.3 mm at Mullingar, Knock Apt Temperature: Lowest max. 13.5°C at Belderrig, highest max. 19.8°C at Sligo Airport. Lowest min. 1.4°C at Markree, highest min. 10.7°C at Roches Pt, Waterford (Tycor) Sunshine: 4.1 hours at Dublin Apt to 11.0 hours at Belmullet

10

RAINFALL

BELOW AVERAGE RAINFALL IN MOST PLACES

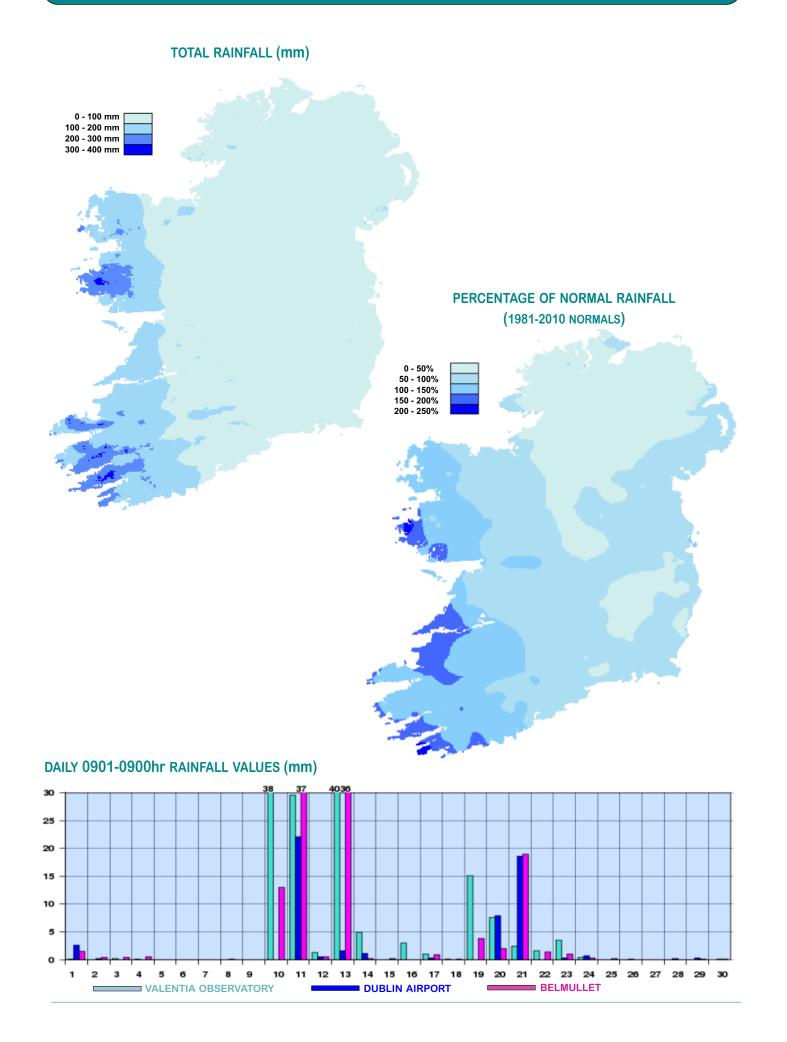
Around three quarters of stations reported below Long-Term Average (LTA) rainfall for September, with the lowest percentage of LTAs values reported in Donegal, Wicklow and Monaghan. Lowest percentage of LTA and monthly total was recorded at a gauge in the Ballinatona Mountains, Co Wicklow which reported 20% of its monthly LTA with a monthly total of 20 mm. Despite this low rainfall total and other low monthly totals across the majority of the country, it was drier in September 2014. Percentage of LTA totals were highest in Mayo, Galway, Clare, Kerry and Cork with the highest percentage of LTA reported at Goleen, Co Cork with 200% of LTA with 228.5 mm of rain. Clifton, Co Galway reported percentage of monthly LTA value of 199% with 229.1 mm, its highest September rainfall at the station since it opened in 1985. Most stations reporting above LTA rainfall reported higher rainfall in either 2006 or 2011. The month's highest rainfall in a lowlying area (area below 200 m) was at Kylemore Abbey Gardens, Co Galway with 259.0 mm, while the overall highest monthly total was at a gauge in the Cummeragh Mountains, Co Kerry with 304.0 mm (107% of LTA). The month's wettest days were 10th, 11th and 13th with daily falls of over 100 mm in parts of Galway and Mayo and some reporting their wettest September day in up to 55 years. The month's wettest day was reported at Moyard (Shanbolard), Co Galway on the 13th with 125.1 mm, its wettest day since the station opened in 1997.

The number of wet days *(days with 1 mm or more)* ranged from four from places in the East to 18 at Dooagh (Water Treatment Plant), Co Mayo.

		% OF			NUMBE	ROF
COUNTY/ STATION		1981-2010 AVERAGE			RAINDAYS (≽0.2mm)	
CO CARLOW						
CARLOW (OAK PARK)	27.8	40	10.6	11	12	7
CO CAVAN						
BALLYHAISE	35.4	45	10.2	11	16	8
CO CLARE						
CARRON		74	29.6	11	16	12
SHANNON AIRPORT CO CORK	87.9	116	22.2	11	16	9
BALLINCURRIG (PEAFIELD)	89.0	87	28.7	11	11	9
CORK AIRPORT			27.4		16	9
FERMOY (MOORE PARK)			39.1	13	13	8
ROCHE'S POINT			21.4		11	8
SHERKIN ISLAND			43.3		14	9
CO DONEGAL						
BALLYSHANNON (CATHLEEN'S FALL)	38.9	39	12.6	11	12	9
GLENTIES HATCHERY	66.0	48	16.8	11	15	15
MALIN HEAD			6.8		15	
CO DUBLIN						
CASEMENT AERODROME	26.2	43	9.0	21	8	6
DUBLIN (MERRION SQUARE)			18.6		8	8
DUBLIN AIRPORT		95	22.1		13	6
DUBLIN (PHOENIX PARK)		62	11.8		10	8
CO GALWAY						-
MAAM VALLEY	210.1	99	85.9	11	16	13
CO KERRY						
ARDFERT (LISCAHANE)	143.5	160	51.3	13	15	10
VALENTIA OBSERVATORY	148.7		39.6		14	12
CO KILKENNY						
THOMASTOWN	126.7	125	37.3	13	15	13
CO LIMERICK						
MOUNT RUSSELL		r	not avai	lable-		
CO MAYO						
BELMULLET	118.2	116	36.8	11	18	9
DELPHI LODGE	199.1		73.9	11	18	16
KNOCK AIRPORT	90.1	81	29.1	11	25	13
STRAIDE	75.4	75	28.3	11	17	10
CO MEATH						
WARRENSTOWN	48.6	67	22.8*	11	9*	4*
CO MONAGHAN						
CARRICKMACROSS (DUNOGE)	40.5	56	16.8	11	9	5
CO OFFALY						
DERRYGREENAGH	36.3	49	15.8	11	12	6
CO ROSCOMMON						
MOUNTDILLON	37.0	47	14.1	11	10	6
CO SLIGO						
ARDTARMON	64.3	73	28.1	11	13	9
CO TIPPERARY						
FETHARD (PARSONSHILL)	53.8	69	13.1	11	9	7
GURTEEN (AG.COLLEGE)	52.5	70	10.7*	11	15*	8*
CO WATERFORD						
DUNGARVAN (CARRIGLEA)	77.3	83	32.8	13	9	6
WATERFORD (TYCOR)	54.8	65	14.6	14	7	6
CO WESTMEATH						
MULLINGAR	39.5	50	12.8*	11	13*	7*
CO WEXFORD						
CLONROCHE (KNOXTOWN)	71.7		20.0	14	8	6
JOHNSTOWN CASTLE	59.9	68	17.7	13	10	6
CO WICKLOW						
ASHFORD (CRONYKEERY)	56.0	74	36.1	11	7	6
* ESTIMATED DATA USED IN CALCULATION. TABLE REPRI	SENTS DATA F	ROM A SMALL S	ELECTION OF	RAINFALL	TATIONS. ALL DAT	A IS 09-09 HR

RAINFALL

11



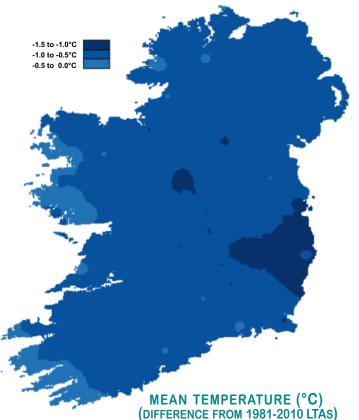
12

TEMPERATURE

BELOW LTA MEAN TEMPERATURES

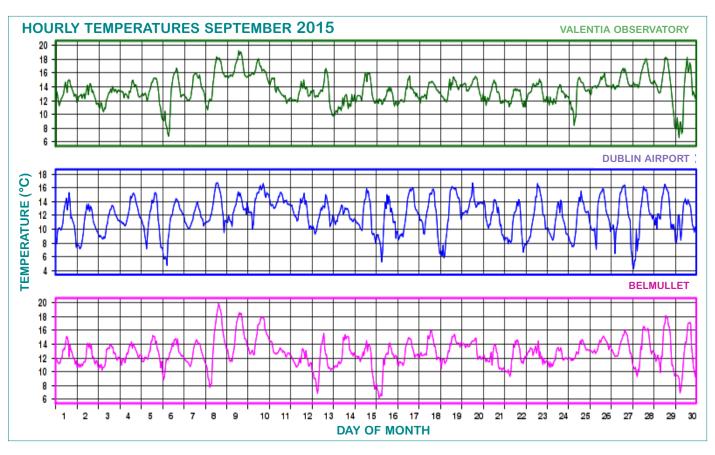
Monthly mean air temperatures ranged from 11.4°C at Knock Airport, Co Mayo to 14.0°C at Sherkin Island, Co Cork. All monthly means were below their Long-Term Average (LTA) with around a quarter of stations reporting differences from LTA of over 1°C, mainly in parts of the East and Midlands. The largest difference from LTA was -1.4°C, reported at four locations; Dublin Airport, which had its coolest September since 1986 with a mean temperature of 12.0°C, Dublin (Merrion Square) and Athy (Chanterlands), Co Kildare with mean temperatures of 12.9°C and 12.2°C respectively, both reporting their coolest September since 1993 and finally at Ballyhaise, Co Cavan reporting its coolest September since the station opened in 2008 with a mean temperature of 11.8°C. Monthly mean temperatures were nearest to normal at both Waterford (Tycor) and Cloosh, Co Galway which were just -0.2°C below their September LTA with mean temperatures of 10.1°C and 8.9°C, respectively.

The majority of highest maxima were reported between the 8th and 10th and ranged from 17.3°C at both Dublin Airport (on the 20th) and Arklow (Ballyrichard Hse), Co Wicklow (on the 15th and 23rd) their lowest September maxima since the stations opened in 1942 and 1984, respectively to 21.4°C at Glengarriff, Co Cork (on the 10th). The majority of lowest minima were on the 6th, 16th, 25th and 30th and ranged from 0.6°C at Straide, Co Mayo



(on the 16th) to 8.2°C at Sherkin Island, Co Cork (on the 6th). There were no reports of air frost with the highest number of days with ground frost reported at Athleague, Co Roscommon, with 10 days and with the station also reporting the month's lowest grass

minimum with -3.5°C on the 25th.



TEMPERATURE

			DI	FFERENCE								
COUNTY/ STATION	MEAN	MEAN	1	FROM 981-2010	HIGHE	ST	LOWE	ST	LOWE	ST	DAYS V	WITH FROST
COUNTY/ STATION	MAX.	MIN.	MEAN	AVERAGE	мах./	DATE	MIN./	DATE	GRASS M	N./DATE	AIR	GROUND
CO CARLOW												
CARLOW (OAK PARK)	16.5	8.9	12.7	-1.0	19.4	10	3.8	30	-1.7	30	0	4
CO CAVAN												
BALLYHAISE	15.5	8.2	11.8	-1.4	19.1	8	2.6	16	0.2	16	0	0
CO CLARE												
CARRON	15.2	9.3	12.2	-0.7	18.6	8	6.5	30	3.4	6	0	0
SHANNON AIRPORT	16.4	9.8	13.1	-1.1	20.2	8	4.7	30	1.5	30	0	0
CO CORK												
BALLINCURRIG (PEAFIELD)	16.1	9.6	12.8		19.4	17	7.0	25	4.5	17	0	0
CORK AIRPORT	15.5	9.5	12.5		18.1	23	7.1	6	2.8	26	0	0
FERMOY (MOORE PARK)	16.1	8.8	12.5		18.7	10	2.6	30	1.2	17	0	0
ROCHE'S POINT	15.9	11.0	13.5	-0.6	18.2	23	8.0	17	2.0	17	0	0
SHERKIN ISLAND	16.2	11.8	14.0	-0.3	17.9	9	8.2	6	4.6	25	0	0
CO DONEGAL	15 0	0.0	10.0	0.2	20.2	0	7 2	2.2			0	
BALLYSHANNON (CATHLEEN'S FALL)	15.8	9.9	12.9		20.3	8	7.3	22 30		2.0	0	1
GLENTIES HATCHERY	15.9 15.2	9.1	12.5		20.2 19.4	29 8	3.5	30 30	-0.2	30 30	0	1 0
MALIN HEAD CO DUBLIN	13.2	10.5	12.9	-0.4	19.4	ð	7.9	30	0.1	30	0	0
CASEMENT AERODROME	16.3	8.2	12.2	-1.1	19.3	8	4.2	6	-0.2	27	0	1
DUBLIN (MERRION SQUARE)	16.0	9.8	12.2		18.3	8	4.2 6.5	6	-0.2	21	0	Ţ
DUBLIN AIRPORT	15.7	8.3	12.0	-1.4	17.3	20	3.9	28	0.1	28	0	0
DUBLIN (PHOENIX PARK)	16.7	8.5	12.0	-0.8	18.9	8	5.4	6 25		6	0	1
CO GALWAY	10.7	0.5	12.0	0.0	10.9	0	5.4	0 25	0.2	0	0	Ţ
MAAM VALLEY	16.4	9.8	13.1	-0.3	20.7	9	4.0	16	1.8	16	0	0
CO KERRY	10.1		10.1	0.5	20.7	2	1.0	τu	1.0	10	Ŭ	0
ARDFERT (LISCAHANE)	16.7	9.3	13.0	-0.8	20.6	8	3.9	6	3.5	6,30	0	0
VALENTIA OBSERVATORY	16.1	11.4	13.7	-0.4	19.5	9	6.6	30	2.1	30	0	0
CO LIMERICK	1011		1011		2010	5	0.0	00		00	Ŭ	
MOUNTRUSSELL	15.4	9.1	12.3	-0.9	18.4	8	5.8	6	2.3	6	0	0
СО МАУО												
BELMULLET	15.7	10.2	13.0	-0.6	20.1	8	6.2	16	3.0	16	0	0
DELPHI LODGE	15.9	10.3	13.1	-0.6	20.5	8	3.6	16	-3.1	16	0	2
KNOCK AIRPORT	14.4	8.4	11.4	-0.7	19.0	8	5.7	16	1.8	16	0	0
STRAIDE	16.3	8.8	12.5	-0.4	20.2	8	0.6	16	-2.7	16	0	2
CO MEATH												
WARRENSTOWN	16.8	8.4	12.6	-0.6	20.1	8	2.8	29	1.4	27,29	0	0
CO MONAGHAN												
CARRICKMACROSS (DUNOGE)	16.2	8.2	12.2	-0.6	19.4	8	2.4	16			0	
CO OFFALY												
DERRYGREENAGH	16.4	8.0	12.2	-0.6	20.2	10	5.3	27	0.3	25	0	0
CO ROSCOMMON												
MOUNTDILLON	16.3	7.3	11.8	-1.2	20.0	8,10	0.8	16	-2.2	28	0	5
CO SLIGO												
ARDTARMON	16.6	9.9	13.3	-0.5	20.7	29	6.5	16			0	
CO TIPPERARY												
FETHARD (PARSONSHILL)	16.0	8.7	12.4		20.0		6.2		3.6		0	0
GURTEEN (AG.COLLEGE)	15.8	8.6	12.2	-1.0	19.4	8	3.7	16	-0.5	30	0	1
CO WATERFORD	17 5		10.4	0 5	10 5	1.0		C 05		0.5		0
DUNGARVAN (CARRIGLEA)	17.5	9.3	13.4		19.5			6,25	0.9	25	0	0
WATERFORD (TYCOR) CO WESTMEATH	17.3	10.1	13.7	-0.2	19.6	23	6.2	ZO			0	
CO WESTMEATH MULLINGAR	15 0	7.9	11.9	-0.9	20.3	10	3.6	25	-0.9	25	0	2
MULLINGAR CO WEXFORD	15.9	'.9	1 11.9	-0.9	20.3	τU	2.0	ZJ	-0.9	ζJ	U	Z
CLONROCHE (KNOXTOWN)	16.5	n/a	n/a	n/a	19.9	10	n / -	n/a	n/2	n/a	n/a	n/a
JOHNSTOWN CASTLE	16.5	9.8	n/a 12.8		19.9		n/a 7.0	n/a 6	n/a 2.6		n/a 0	n/a 0
CO WICKLOW	T7.0	2.0	12.0	-1.0	10.0	τV	/.0	U	2.0	∠ ∪		U
ASHFORD (CRONYKEERY)	16.8	8.2	12.5	-1.1	18.9	23	3.7	27	-2.4	25	0	7
	±0.0	0.2	12.0	±•±	10.9	27	5.1	<u>~</u> /	2.7	20		1
* PARTIAL DATA USED IN CALCULATION. TABLE REPRESE	NTS DATA FR	OM A SMALL	SELECTION	OF STATIONS.	ALL DATA IS	09-09 HR						

* PARTIAL DATA USED IN CALCULATION. TABLE REPRESENTS DATA FROM A SMALL SELECTION OF STATIONS. ALL DATA IS 09-09 HR

SUNSHINE

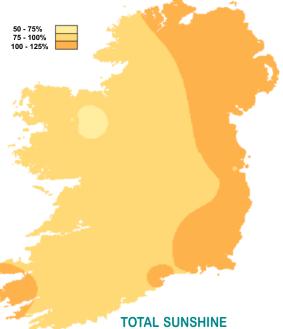
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COUNTY/ STATION	DAILY MEAN (HOURS/DAY		DAYS	MOST A DAY/E	4
CO CLARE					
SHANNON AIRPORT	3.26	82	8	9.3	28
CO CORK					
BALLINCURRIG (PEAFIELD)	3.91	89	6	9.6	6
CORK AIRPORT	3.85	88	7	11.2	6
SHERKIN ISLAND	4.15	89	5	9.6	6
CO DONEGAL					
BALLYSHANNON (CATHLEEN'S FALL)	3.15	85	4	9.7	8
CO DUBLIN					
CASEMENT AERODROME	4.17	101	6	10.5	26
DUBLIN (GLASNEVIN)	4.12	99	6	9.0	29
DUBLIN AIRPORT	4.55	106	4	11.1	26
CO KERRY					
ARDFERT (LISCAHANE)	4.04	98	6	11.7	8
VALENTIA OBSERVATORY*	4.29		3	11.8	6
CO MAYO					
BELMULLET*	3.16		6	11.0	30
KNOCK AIRPORT	2.32	66	8	7.7	8
NEWPORT (FURNACE)	2.91	88	6	7.6	8
STRAIDE	2.86	75	6	8.3	8
CO WATERFORD					
DUNGARVAN (CARRIGLEA)	4.58	102	5	10.2	5
CO WEXFORD					
CLONROCHE (KNOXTOWN)	4.73	108	5	10.4	30
JFK PARK	4.38	100	7	10.0	30
WEXFORD WILDFOWL RESERVE		not ava	ailable-		
CO WICKLOW					
ARKLOW (BALLYRICHARD HSE)	5.03		3	9.9	30
ASHFORD (CRONYKEERY)	4.71	104	2	9.7	30
* PARTIAL DATA USED IN CALCULATION * SUNSHINE DURATION DERIVED FROM AUTOSOL INSTRUMENTS. LONG-TERM AVERAGE COMPARISONS ARE NOT USED WITH AUTOSOL READINGS.					

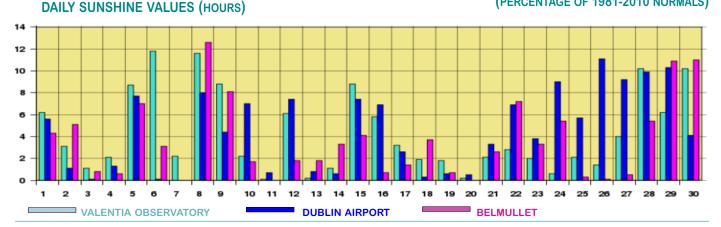
VARIABLE PERCENTAGE OF LTA; SUNNIEST DAY IN THE SOUTHWEST

Variable percentage of Long-Term Average (LTA) sunshine was reported across the country. Percentage of LTAs were lowest at Knock Airport, Co Mayo with 66% (lowest monthly sunshine total of 69.7 hours) while the highest percentage of LTA was reported at Clonroche (Knoxtown), Co Wexford with 108% (monthly sunshine total of 141.8 hours). The month's highest sunshine total was 150.8 hours reported at Arklow (Ballyrichard Hse), Co Wicklow. The month's sunniest day was on the 6th at Valentia Observatory, Co Kerry with 11.8 hours. The number of dull days (days with less than 0.5 hours of sunshine) were up to eight at both Knock Airport and Shannon Airport Co Clare.

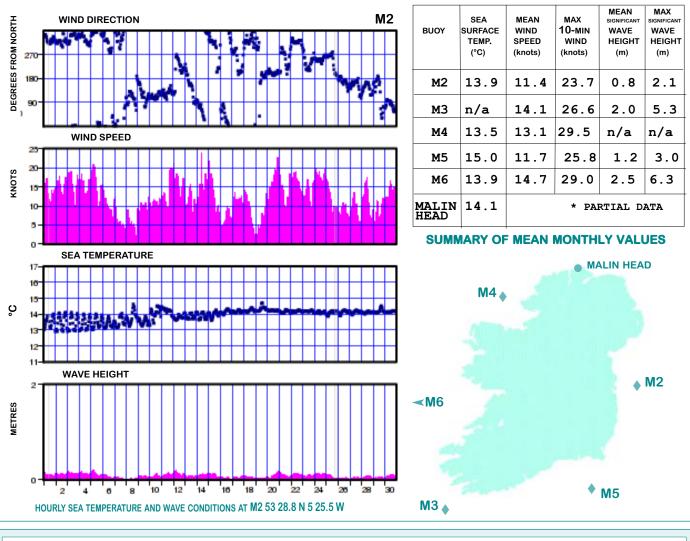
Percentage of global solar radiation LTA values were all above average ranging from 101% at Belmullet, Co Mayo to 107% at Dublin Airport.



(PERCENTAGE OF 1981-2010 NORMALS)



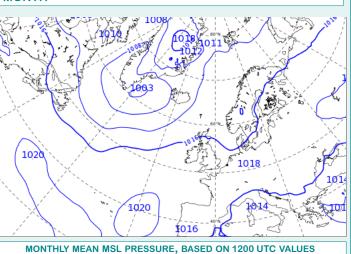
MARINE OBSERVATIONS FROM IRISH MARINE DATA BUOY NETWORK



HOURLY MEAN SEA LEVEL PRESSURE SEPTEMBER 2015 VALENTIA OBSERVATORY MALIN HEAD PRESSURE (hPa 15 16 DAY OF MONTH

ATMOSPHERIC PRESSURE

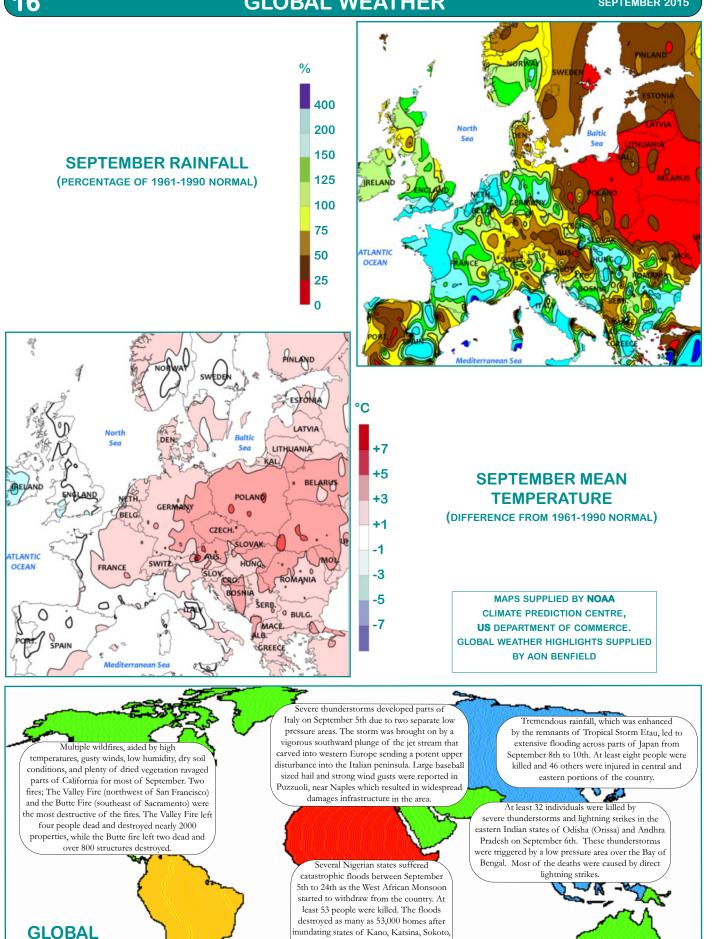
Monthly mean sea level pressure values ranged from just below 1017 hPa in the North to just below 1018hPa in the South. The month's lowest pressure value of 991.7 hPa was recorded at Johnstown Castle, Co Wexford on the 16th between 1400 and 1600 UTC as a depression of 984 hPa was located over the southeast UK. The month's highest pressure value was 1037.1 hPa recorded at Malin Head, Co Donegal on the 30th between 0900 UTC and 1100 UTC as a anticyclone of 1039 hPa was located over northern Europe.





GLOBAL WEATHER

SEPTEMBER 2015



WEATHER SUMMARY nundating states of Kano, Katsina, Sokoto Kebbi, Zamfara, Kaduna, Jigawa, Adamawa, Yobe, Gombe, and Bauchi