WEATHER 2018

Happy, if belated, New Year from me, and my hope that 2018 would finally bring a long warm summer more or less came true, when a cold and damp early spring gave way to a very pleasant June July and August- in fact it was probably the best summer in the SE since 1996 from mid May until the second week of August.

Now on to 2019, and we will have to see what it brings. I have collated all the data from my weather programme generated by the Davis automatic weather centre and am attaching the tabular data and graphs generated from it. Early predictions show that we are in for a cold spell in the next month but it is only a prediction. As I write this report the weather has benefited by some very high pressure (over 1035 milli-bars), bringing dry if somewhat cloudy skies at times.

Meteo took over the provision of data to the BBC and gave us new look to the weather graphs, I am not convinced that they were more accurate than The Meteorological Office, time will tell.

I think that we can all agree that it was a cold winter last year with January producing one day where the temperature did not rise above zero degrees all day, something we have not seen for a few years. Surprisingly I only measured three frosts despite the very cold weather (possibly there were more in South Nutfield, there is generally a one degree temperature difference registered on my car outside temperature between Nutfield and South Nutfield). We had 24 days with more than 0.2 mm rain and the barometer was much lower than in 2017. Rainfall at 92 mm was slightly higher than the previous year. We had snow flurries overnight on the 16th and some wet snow on the 21st which gave way to rain as the temperature increased. Average temperate over the month was only 5.7 degrees

February was an even colder month. We had some non settling snow between the 3rd and the 8th and a total of 17 frosty days especially cold when the 'Beast from the East ' (BoE) arrived and some settling snow fell on 26th and 27th not huge quantities I only measured about 1 cm. We had rain (or snow) on 12 days and the lowest temperature of -6.4 degrees on the 27th. Pressure was higher than in January.   With the effect of the BoE the average temperature for the month was a very low at 2.5 degrees. Maximum temperatures struggled to get above 5 degrees and we had three days with average temperatures from -1.3 to -4.5, makes me shiver to think of it now! Not as rainy as in 2017 with 46mm recorded and 17 frosty days.

March started the same as February ended with two days with highest temperatures below freezing, and some settling snow on the 1st and 2nd as the BoE continued with very low pressure throughout the month. We had 23 rainy days and 8 frosty days, with 88 mm of rain (twice the rainfall in 2017). The average mean temperature was 5.2 degrees still quite cold, but there were 14 days with temperatures above 10 degrees, so some signs of warmth starting to appear.

April started and ended very rainy we had 16 rainy days and no frosts with a warm spell between 12th and the 22nd with a maximum temperature of 28.3 degrees, but it was very cold in the last days of the month with very heavy rain on the 30th. Average mean temperature was 10.5 degrees so much warmer than March. We had 95.4 mm of rain over 10 times that of 2017. If you look at the rainfall charts you will see that monthly weather varies widely every year.

 May did not start well with frost on the 1st and 3rd, and a rainy windy day in between, however by the end of the first week it was warming up what rain we did have fell mostly at night until towards the end of the month. The highest temperature was 27.3 degrees and the mean month's temperature was 14.2, much warmer than April. In the last two weeks it cooled down a bit and we had a couple of rainy days, but only 7 days with some rain during the month with 48.4 mm 98 in 2017.

June was a lovely month with almost continuous warm temperatures and hardly any rain, in fact only 3 mm fell all month, compared with 77.4 in 2017. The maximum temperature was 29.1 and the mean month's temperature was 16.7 degrees, very pleasant. We had 4 days with some rain, but the maximum day's rain was only 2.2 mm!

July was another sunny and warm month with only one day when the maximum temperature was less than 22 degrees (18.4 degrees, and rainy on the 29th). All the rain came during the first 6 days on the month with a total of only 25 mm falling. A bit different than last year's 129.2 mm. We only had measurable rain on 6 days, with half the months rain falling on one day, the 29th. The maximum temperature was 34.9 degrees on the 29th and the mean month's temperature was 20.3 degrees. We had 20 days with maximum temperatures over 25 degrees of which 8 had over 30 degrees, just like being in the Mediterranean.

August was another warm month, especially the first 7 days, thereafter it became less predictable, but like many Augusts it was also wet, with 100.1 mm falling (last year had 128.4mm), with 13 days on which we had measurable rain, but we did have a good soaking on the 9th and 10th, then the 16th, 26th and 29th. The highest temperature was 32.5 degrees on the 3rd and another very acceptable mean month's temperature of 17.5 degrees.

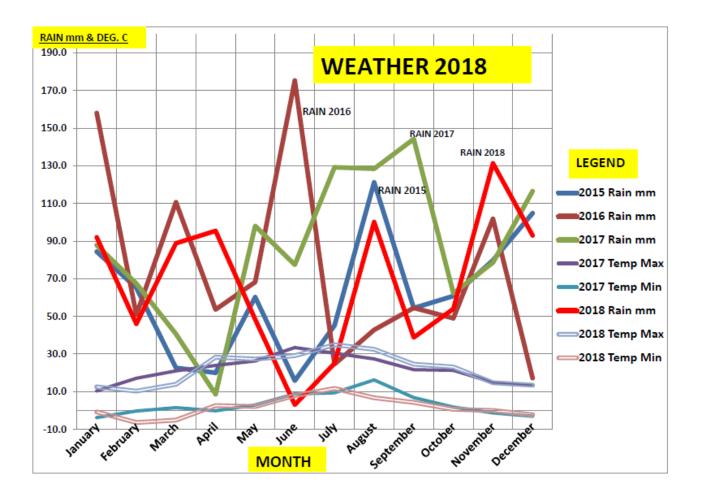September was cooler but drier with most of the rain falling in the 4th week. Monthly rain was 38.6 mm so quite low especially compared with the 144.2 mm in 2017. Maximum temperature was 24.6 degrees and a mean monthly temperature of 14.1, it was also not so bright with more cloud that kept the sun off and lowered temperatures. No frosts in September.

The start and middle of October were quite mild, but temperatures dropped in the in the last week giving way to the first frosts of the winter, three in total. Temperature wise, we had a high of 23.1 on the 10th, but a monthly mean of 11.1 degrees back to a similar value as April. We had measurable rain on 15 days, but the majority of the month's rain fell on the 6th and the 14th with 18.4 mm and 16.8 mm respectively, total rain of 54 mm, similar to last year's 63.2.

November was much colder and wetter than October with 131.3 mm of rain (78.6 in 2017). We had 21 days with measurable rain with the heaviest falling between the 7th and the 12th. The highest temperature was only 14.7 degrees with a monthly mean of 7.8 degrees. We only had 6 days over 10 degrees during the whole month but surprisingly only 3 frosts, it certainly felt like winter had arrived, with some sleet falling overnight on the 20th .

December started off reasonably mild, struggling up to a high of 13.4 degrees on the 2nd , the mean month's temperature was 7.0 degrees showing the effect of colder nights. However high pressure and winds from the SW during the last week of the month (including Christmas) gave reasonably mild and dry weather over the holiday period with ample possibilities to take advantage and get outside to walk off a few of the pounds gained. We had 8 frosts, and a total of 21 days when rain fell, with the first week quite wet. Only very small amounts during the last 10 days of the month. We had 93 mm of rain in total compared with 118.5 in 2017.
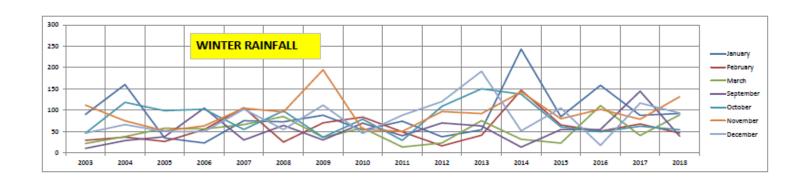

David Cullen

RAIN mm & DEG. C

WEATHER 2018

LEGEND

- 2015 Rain mm
- 2016 Rain mm
- 2017 Rain mm
- 2017 Temp Max
- 2017 Temp Min
- 2018 Rain mm
- 2018 Temp Max
- 2018 Temp Min

RAIN 2016 — RAIN 2017 — RAIN 2018 — RAIN 2015

MONTH

RAINFALL - WINTER MONTHS

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
January	89.92	159.8	34.5	23	75	72.4	87.9	53.2	73.80	37.6	53.8	242.8	84.4	158.00	87.80	92
February	29.21	36.7	26.5	54.7	105.7	24.9	70	83.7	49.00	16.2	41.2	146.8	65.2	50.80	67.40	46
March	21.59	37.8	57.5	56	66	85.2	36.1	58.2	13.60	22.8	75.2	31.6	22.6	110.60	40.60	88.8
September	10.16	28.4	37.5	104.7	29.9	64.4	29.8	69.4	39.80	69.8	62.8	13.2	54.4	54.50	144.20	38.6
October	45.72	118.1	98.6	102	54.7	98.3	36.4	78.6	29.00	108.8	150	137.2	60.8	49.00	62.20	54
November	111.76	74.9	51.5	63	104.5	95.5	194.6	54.3	50.20	96.6	91.7	143	79.8	101.80	78.60	131.3
December	45.97	66.1	50	49.7	102.1	54.7	111.4	45.6	88.00	120	190.9	51.3	104.8	17.20	116.50	93
TOTAL mm	354.33	521.8	356.1	453.1	537.9	495.4	566.2	443	343.40	471.8	665.6	765.9	472	541.90	597.30	543.7
Total Rain	535.94	850.4	559	722.8	811.2	841.9	795.8	614.7	588.8	975.4	874.5	1059.4	734.4	906.4	1038.9	815.6

WINTER RAINFALL

Legend: January, February, March, September, October, November, December

MONTH		Week 1	Week 2	Week 3	Week 4	Week 5	Total mm	Max Temp Deg C	Min Temp Deg C	Min Press mmbar	Frosty Days	YEAR
RAIN in mm												RAIN in mm
January		30.0	2.6	36.2	19.4	3.8	92.0	12.5	-0.8	986.0	3	
February		0	21.6	14.8	9.6	0.0	46.0	10.3	-6.4	995.0	17	
March		3.2	24.4	19.8	1.4	40.0	88.8	13.9	-5.1	983.0	5	
April		2.8	19.4	18.8	1.6	52.8	95.4	28.3	2.6	988.0	0	
May		12	10.0	0.0	15.6	10.8	48.4	27.3	2.1	997.0	1	
June		0.0	2.2	0.2	0.6	0.0	3.0	29.1	7.9	1007.0	0	
July		0.2	0.0	0.0	16.8	8.0	25.0	34.9	11.7	998.0	0	
August		0.0	42.2	21.8	19.5	16.6	100.1	32.5	6.7	992.0	0	
September		0.0	1.4	5.8	31.4	0.0	38.6	24.6	4.3	994.0	0	
October		18.9	17.6	9.9	6.8	0.8	54.0	23.1	0.6	986.0	3	
November		12.0	63.2	15.2	15.7	25.2	131.3	14.7	0.0	988.0	3	
December		12.4	31.3	18.5	30.2	0.6	93.0	13.4	-2.3	990.0	8	
Total							815.6				40	815.6

MONTH	Rain 2017	Rain 2018	Max T 2018	Min T 2018	Mean Temp 2018
January	87.8	92.0	12.5	-0.8	5.7
February	67.4	46.0	10.3	-6.4	2.5
March	40.6	88.8	13.9	-5.1	5.1
April	8.6	95.4	28.3	2.6	10.5
May	98.0	48.4	27.3	2.1	14.1
June	77.4	3.0	29.1	7.9	16.7
July	129.2	25.0	34.9	11.7	20.3
August	128.4	100.1	32.5	6.7	17.5
September	144.2	38.6	24.6	4.3	14.1
October	62.2	54.0	23.1	0.6	11.1
November	78.6	131.3	14.7	0.0	7.8
December	116.5	93.0	13.4	-2.3	
Total	1038.9	815.6			

MONTH	2015 Rain mm	2016 Rain mm	2017 Rain mm	2017 Temp Max	2017 Temp Min	2018 Rain mm	2018 Temp Max	2018 Temp Min
January	84.4	158	87.8	10.4	-3.8	92.0	12.5	-0.8
February	65.2	50.8	67.4	17.1	-0.3	46.0	10.3	-6.4
March	22.6	110.6	40.6	21.0	1.5	88.8	13.9	-5.1
April	20.0	53.6	8.6	23.9	-0.2	95.4	28.3	2.6
May	80.2	68.2	98.0	26.3	2.9	48.4	27.3	2.1
June	15.8	175.3	77.4	33.4	8.8	3.0	29.1	7.9
July	45.2	24.6	129.2	30.4	9.4	25.0	34.9	11.7
August	121.2	42.8	128.4	27.4	16.2	100.1	32.5	6.7
September	54.4	54.5	144.2	21.7	6.8	38.6	24.6	4.3
October	80.8	49	62.2	21.3	1.8	54.0	23.1	0.6
November	79.8	101.8	78.6	14.9	-1.3	131.3	14.7	0.0
December	104.0	17.2	116.5	13.3	-3.1	93.0	13.4	-2.3
	734.4	906.4	1038.9					