

# November 2021 and Autumn weather summary

**Exceptionally dry, cool and sunny.**

**Rainfall:** 15.7mm (20% of normal).

An exceptionally dry month, the driest since 1956 (65 years) and the 3<sup>rd</sup> driest in the last 100 years, with only 1945 (6.6mm) and 1956 (11.4mm) being drier.

The wettest day was 8.1mm (26<sup>th</sup>), this was the lowest November total since 2015. There were 9 'rain days' (0.2mm or more), this was 9 days lower than normal and the lowest since 1983 (equal 1988). There were 4 'wet days' (1.0mm or more), this was 8 days lower than normal and the lowest November total since 1988 (3 days). There was 1 day with a total of 5.0mm or more, this was 4 days lower than normal but the lowest since 1956 which had zero days. The following years also recorded 1 day since 1956: 1988, 1989, 2004 and 2011.

Snow fell on 27<sup>th</sup> and 28<sup>th</sup> with the latter providing a dusting at 0900 on 29<sup>th</sup> with 60% cover. The first recorded snow lying since 2010 and before that 1996. Snow lying became a little thicker going west (see photo) and sparser going east of Winnersh. The freezing conditions that followed the snowfall caused major disruption on the SWR network in the area.

## **The last 3 months - (September – October - November) - Autumn**

The Autumn period on average is normally the wettest season of the year with 29.9% of the total. In 2021, the total was 154.6mm (74% of normal), making it the driest since 2017, but the 7<sup>th</sup> driest since 2000 and 29<sup>th</sup> in 100 years. The period shows September 43.0mm (83%), October 95.9mm (123%) and November 15.7mm (20%).

The **12-month period** (December 2020 to November 2021) provides a total of 701.1mm (101% of average). This period includes the 12<sup>th</sup> driest April and 3<sup>rd</sup> driest November in the last 100 years.

## **Temperature:**

The mean maxima were 10.9c (-0.1c below normal). The highest maximum temperature was 15.6 (9<sup>th</sup>). The lowest maximum temperature was 4.3c (28<sup>th</sup>) and this was the lowest November maxima since 2017 when 3.8c was recorded. Since 2000, the lowest maximum temperature was recorded in 2010 +0.4c.

The mean minima were 3.7c (-0.9c below normal), the lowest since 2017.

The lowest minimum was -1.9c (19<sup>th</sup>), only the lowest since 2019. The highest minimum was a mild 10.4c (13<sup>th</sup>).

The lowest grass minimum recorded was -6.0c (29<sup>th</sup>).

There were 6 air frosts, (total frost duration 30.1 hours), which is 1 day more than normal, and it was the highest number of air frosts since 2016. There were 16 ground frosts.

### **The last 3 months - (September – October - November) - Autumn**

The Autumn period indicates a mean maxima of 16.1c (+0.8c) making it in the top 10% of mild Autumns in the last 100 years.

The mean minima was 8.3c (+0.8c) also making it into the mildest 10% of autumns in the last 100 years. This was mainly due to the very mild September and October nights.

**Sunshine:** 87.4 (120% of normal)

The sunniest November since 2017, and the 7<sup>th</sup> sunniest since 2000. The number of sunless days was 6, 1 day below normal. However, there were 9 days with 5.0 hours or more 3 days above normal.

The sunniest day was 8.0 hours (2<sup>nd</sup>).

### **The last 3 months - (September – October - November) - Autumn**

The Autumn 2021 period recorded 362.2 hours, (111% of normal sunshine) almost the same as 2020 but the dullest since 2017.

**Thunder;** there were 0 days with thunder heard (about normal).

**Hail;** there was 0 days with hail.

**Fog;** at the 0900am observation there was 0 days with fog observed on the 9<sup>th</sup>.

**Wind gusts (at or above 50km/hr)** There was one day with a wind gust at or above 50km/hr on 27<sup>th</sup> from **STORM ARWEN**. We were fortunate that the impact from that storm did not inflict similar destruction as it did to other parts of the UK.

However, 9 mornings (30%) at 0900 GMT the wind was observed to be calm.

#### **Wind direction (at 0900am observation GMT)**

N	0.0%	E	0.0%	S	10.0%	W	6.7%	Calm	30.0%
NNE	3.3%	ESE	0.0%	SSW	13.3%	WNW	3.3%		
NE	0.0%	SE	0.0%	SW	3.3%	NW	16.7%		
ENE	0.0%	SSE	3.3%	WSW	3.3%	NNW	6.7%		