

Met Eireann  
Return Period Rainfall Depths for sliding Durations  
Irish Grid: Easting: 166504, Northing: 66206,

DURATION	Interval		Years										
	6months,	1year,	2,	3,	4,	5,	10,	20,	30,	50,	75,	100,	120,
5 mins	3.2,	4.0,	4.4,	4.9,	5.3,	5.5,	6.4,	7.3,	7.8,	8.6,	9.2,	9.7,	10.0,
10 mins	4.4,	5.5,	6.1,	6.8,	7.3,	7.7,	8.9,	10.2,	10.9,	12.0,	12.9,	13.6,	14.0,
15 mins	5.2,	6.5,	7.1,	8.1,	8.6,	9.1,	10.5,	11.9,	12.9,	14.1,	15.2,	15.9,	16.5,
30 mins	7.0,	8.7,	9.6,	10.8,	11.6,	12.2,	14.1,	16.1,	17.3,	19.0,	20.4,	21.5,	22.2,
1 hours	9.4,	11.8,	12.9,	14.6,	15.7,	16.5,	19.0,	21.7,	23.3,	25.6,	27.5,	28.9,	29.9,
2 hours	12.7,	15.9,	17.4,	19.7,	21.1,	22.2,	25.6,	29.2,	31.4,	34.5,	37.1,	39.0,	40.3,
3 hours	15.1,	18.9,	20.8,	23.4,	25.2,	26.5,	30.5,	34.8,	37.4,	41.0,	44.1,	46.4,	47.9,
4 hours	17.0,	21.4,	23.5,	26.5,	28.5,	30.0,	34.5,	39.3,	42.4,	46.4,	49.9,	52.5,	54.2,
6 hours	20.3,	25.4,	28.0,	31.6,	33.9,	35.7,	41.1,	46.8,	50.4,	55.3,	59.4,	62.5,	64.6,
9 hours	24.2,	30.3,	33.3,	37.6,	40.4,	42.4,	48.9,	55.8,	60.0,	65.8,	70.7,	74.4,	76.9,
12 hours	27.3,	34.3,	37.7,	42.5,	45.7,	48.0,	55.4,	63.1,	68.0,	74.5,	80.1,	84.2,	87.0,
18 hours	32.6,	40.8,	44.9,	50.7,	54.4,	57.2,	65.9,	75.1,	80.9,	88.7,	95.3,	100.3,	103.6,
24 hours	36.8,	46.2,	50.8,	57.3,	61.5,	64.7,	74.6,	85.0,	91.5,	100.4,	107.9,	113.5,	117.2,
2 days	47.9,	58.7,	64.0,	71.5,	76.3,	79.8,	90.8,	102.2,	109.4,	118.9,	126.9,	132.9,	136.9,
3 days	57.1,	69.2,	75.1,	83.3,	88.5,	92.3,	104.2,	116.6,	124.2,	134.3,	142.8,	149.2,	153.3,
4 days	65.4,	78.5,	84.9,	93.7,	99.3,	103.5,	116.2,	129.2,	137.3,	148.0,	156.9,	163.6,	167.9,
6 days	80.3,	95.3,	102.5,	112.4,	118.6,	123.3,	137.3,	151.7,	160.5,	172.1,	181.8,	189.0,	193.7,
8 days	93.8,	110.4,	118.3,	129.1,	135.9,	141.0,	156.2,	171.7,	181.2,	193.6,	204.0,	211.6,	216.6,
10 days	106.5,	124.5,	133.0,	144.7,	152.0,	157.4,	173.7,	190.2,	200.2,	213.3,	224.3,	232.3,	237.6,
12 days	118.6,	137.9,	147.0,	159.4,	167.2,	172.9,	190.1,	207.5,	218.0,	231.8,	243.3,	251.7,	257.2,
16 days	141.5,	163.1,	173.3,	187.0,	195.6,	201.9,	220.8,	239.8,	251.3,	266.2,	278.6,	287.7,	293.6,
20 days	163.3,	187.0,	198.0,	213.0,	222.2,	229.1,	249.5,	269.9,	282.1,	298.1,	311.3,	321.0,	327.3,
25 days	189.3,	215.4,	227.4,	243.7,	253.8,	261.2,	283.3,	305.3,	318.4,	335.6,	349.7,	360.0,	366.7,

NOTES:

These values are derived from a Depth Duration Frequency (DDF) Model update 2023

For details refer to:

'Mateus C., and Coonan, B. 2023. Estimation of point rainfall frequencies in Ireland. Technical Note No. 68. Met Eireann',

Available for download at:

<http://hdl.handle.net/2262/102417>