

Appendix 3B

MET EIREANN EXTREME RAINFALL DATA FOR THE AREA

Met Eireann
Return Period Rainfall Depths for sliding Durations
Irish Grid: Easting: 213023, Northing: 161026,

DURATION	Interval		Years													
	6months,	1year,	2,	3,	4,	5,	10,	20,	30,	50,	75,	100,	150,	200,	250,	500,
5 mins	2.7,	3.6,	4.1,	4.9,	5.4,	5.8,	7.0,	8.4,	9.3,	10.5,	11.6,	12.5,	13.7,	14.7,	15.5,	N/A ,
10 mins	3.7,	5.1,	5.8,	6.8,	7.5,	8.0,	9.8,	11.7,	12.9,	14.7,	16.2,	17.4,	19.1,	20.5,	21.7,	N/A ,
15 mins	4.4,	6.0,	6.8,	8.0,	8.8,	9.5,	11.5,	13.7,	15.2,	17.3,	19.0,	20.4,	22.5,	24.1,	25.5,	N/A ,
30 mins	5.8,	7.8,	8.8,	10.3,	11.3,	12.1,	14.6,	17.3,	19.1,	21.5,	23.6,	25.2,	27.7,	29.6,	31.2,	N/A ,
1 hours	7.6,	10.1,	11.4,	13.3,	14.5,	15.5,	18.5,	21.7,	23.9,	26.8,	29.3,	31.2,	34.1,	36.4,	38.2,	N/A ,
2 hours	10.1,	13.2,	14.8,	17.1,	18.6,	19.8,	23.4,	27.4,	29.9,	33.3,	36.3,	38.6,	42.0,	44.6,	46.8,	N/A ,
3 hours	11.9,	15.4,	17.2,	19.8,	21.5,	22.8,	26.9,	31.3,	34.1,	37.9,	41.2,	43.7,	47.5,	50.3,	52.7,	N/A ,
4 hours	13.4,	17.2,	19.2,	22.0,	23.9,	25.3,	29.7,	34.4,	37.4,	41.5,	45.0,	47.7,	51.7,	54.8,	57.3,	N/A ,
6 hours	15.7,	20.1,	22.4,	25.5,	27.6,	29.2,	34.1,	39.3,	42.7,	47.2,	51.1,	54.0,	58.4,	61.8,	64.5,	N/A ,
9 hours	18.5,	23.5,	26.0,	29.6,	31.9,	33.7,	39.2,	45.0,	48.7,	53.7,	57.9,	61.2,	66.0,	69.6,	72.6,	N/A ,
12 hours	20.8,	26.3,	29.0,	32.9,	35.4,	37.3,	43.2,	49.5,	53.4,	58.8,	63.3,	66.8,	71.9,	75.8,	79.0,	N/A ,
18 hours	24.5,	30.7,	33.7,	38.1,	40.9,	43.0,	49.6,	56.6,	60.9,	66.8,	71.8,	75.6,	81.2,	85.5,	88.9,	N/A ,
24 hours	27.5,	34.2,	37.6,	42.3,	45.4,	47.7,	54.8,	62.2,	66.9,	73.2,	78.6,	82.6,	88.6,	93.1,	96.7,	108.9,
2 days	34.6,	42.2,	45.9,	51.2,	54.5,	57.0,	64.7,	72.6,	77.5,	84.1,	89.7,	93.9,	100.0,	104.6,	108.3,	120.7,
3 days	40.7,	49.1,	53.2,	58.9,	62.5,	65.2,	73.4,	81.8,	87.1,	94.0,	99.8,	104.2,	110.6,	115.4,	119.2,	132.0,
4 days	46.3,	55.4,	59.8,	65.9,	69.8,	72.6,	81.3,	90.3,	95.8,	103.0,	109.1,	113.7,	120.4,	125.3,	129.3,	142.5,
6 days	56.6,	67.0,	71.9,	78.7,	83.0,	86.2,	95.8,	105.6,	111.6,	119.5,	126.1,	131.0,	138.1,	143.4,	147.7,	161.7,
8 days	66.2,	77.6,	83.0,	90.5,	95.1,	98.6,	109.0,	119.6,	126.0,	134.5,	141.5,	146.7,	154.3,	160.0,	164.5,	179.2,
10 days	75.2,	87.6,	93.5,	101.5,	106.5,	110.2,	121.4,	132.7,	139.5,	148.5,	155.9,	161.4,	169.4,	175.4,	180.1,	195.6,
12 days	83.9,	97.3,	103.5,	112.1,	117.4,	121.4,	133.2,	145.1,	152.3,	161.8,	169.6,	175.4,	183.8,	190.0,	194.9,	211.1,
16 days	100.7,	115.7,	122.7,	132.3,	138.2,	142.6,	155.6,	168.7,	176.6,	186.9,	195.5,	201.7,	210.8,	217.5,	222.9,	240.3,
20 days	116.8,	133.4,	141.1,	151.5,	158.0,	162.7,	176.9,	191.1,	199.6,	210.7,	219.8,	226.5,	236.3,	243.4,	249.1,	267.6,
25 days	136.4,	154.8,	163.2,	174.7,	181.8,	187.0,	202.4,	217.8,	227.0,	239.0,	248.9,	256.0,	266.5,	274.2,	280.3,	300.0,

NOTES:

N/A Data not available

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

For details refer to:

'Fitzgerald D. L. (2007), Estimates of Point Rainfall Frequencies, Technical Note No. 61, Met Eireann, Dublin',

Available for download at www.met.ie/climate/dataproducts/Estimation-of-Point-Rainfall-Frequencies_TN61.pdf