

Appendix 4C

Met Éireann Rainfall Data

Met Eireann
Return Period Rainfall Depths for sliding Durations
Irish Grid: Easting: 159887, Northing: 135056,

DURATION	Interval		Years													
	6months,	1year,	2,	3,	4,	5,	10,	20,	30,	50,	75,	100,	150,	200,	250,	500,
5 mins	2.7,	3.8,	4.4,	5.4,	6.0,	6.5,	8.1,	10.0,	11.3,	13.1,	14.6,	15.9,	17.8,	19.3,	20.5,	N/A ,
10 mins	3.7,	5.3,	6.2,	7.5,	8.4,	9.1,	11.4,	14.0,	15.7,	18.2,	20.4,	22.1,	24.8,	26.9,	28.6,	N/A ,
15 mins	4.4,	6.2,	7.2,	8.8,	9.8,	10.7,	13.4,	16.4,	18.5,	21.4,	24.0,	26.0,	29.2,	31.6,	33.7,	N/A ,
30 mins	5.7,	8.0,	9.2,	11.0,	12.3,	13.2,	16.3,	19.8,	22.1,	25.3,	28.2,	30.4,	33.8,	36.5,	38.7,	N/A ,
1 hours	7.5,	10.3,	11.7,	13.8,	15.3,	16.4,	19.9,	23.8,	26.4,	30.0,	33.1,	35.5,	39.2,	42.1,	44.4,	N/A ,
2 hours	9.9,	13.2,	14.9,	17.4,	19.0,	20.3,	24.3,	28.7,	31.6,	35.5,	38.9,	41.5,	45.5,	48.6,	51.1,	N/A ,
3 hours	11.6,	15.2,	17.1,	19.8,	21.6,	23.0,	27.3,	32.0,	35.0,	39.2,	42.8,	45.5,	49.7,	52.8,	55.4,	N/A ,
4 hours	13.0,	16.9,	18.9,	21.8,	23.7,	25.1,	29.7,	34.6,	37.7,	42.0,	45.7,	48.6,	52.8,	56.1,	58.7,	N/A ,
6 hours	15.2,	19.5,	21.7,	24.9,	26.9,	28.5,	33.3,	38.6,	41.9,	46.4,	50.3,	53.2,	57.6,	61.0,	63.7,	N/A ,
9 hours	17.8,	22.6,	25.0,	28.4,	30.6,	32.3,	37.5,	43.0,	46.5,	51.2,	55.3,	58.3,	62.9,	66.3,	69.1,	N/A ,
12 hours	20.0,	25.1,	27.6,	31.2,	33.5,	35.3,	40.7,	46.5,	50.1,	55.0,	59.1,	62.2,	66.9,	70.4,	73.3,	N/A ,
18 hours	23.4,	29.0,	31.8,	35.7,	38.1,	40.0,	45.8,	51.9,	55.6,	60.7,	65.0,	68.2,	73.0,	76.6,	79.5,	N/A ,
24 hours	26.3,	32.2,	35.1,	39.2,	41.8,	43.8,	49.8,	56.0,	59.9,	65.1,	69.5,	72.8,	77.7,	81.3,	84.3,	94.1,
2 days	33.0,	39.8,	43.1,	47.7,	50.6,	52.7,	59.3,	66.2,	70.4,	75.9,	80.6,	84.1,	89.3,	93.2,	96.2,	106.5,
3 days	38.8,	46.4,	50.0,	55.0,	58.2,	60.5,	67.7,	75.0,	79.5,	85.5,	90.5,	94.2,	99.7,	103.8,	107.0,	117.8,
4 days	44.1,	52.3,	56.2,	61.6,	65.1,	67.6,	75.3,	83.1,	87.9,	94.2,	99.5,	103.4,	109.2,	113.5,	116.9,	128.2,
6 days	53.8,	63.2,	67.6,	73.7,	77.6,	80.4,	89.0,	97.7,	103.0,	110.0,	115.8,	120.1,	126.4,	131.1,	134.8,	147.0,
8 days	62.7,	73.2,	78.1,	84.8,	89.0,	92.2,	101.5,	111.0,	116.8,	124.4,	130.6,	135.3,	142.0,	147.0,	151.0,	164.1,
10 days	71.2,	82.6,	87.9,	95.3,	99.8,	103.2,	113.3,	123.5,	129.7,	137.8,	144.5,	149.4,	156.6,	162.0,	166.2,	180.1,
12 days	79.3,	91.6,	97.4,	105.2,	110.1,	113.7,	124.5,	135.4,	141.9,	150.5,	157.6,	162.9,	170.5,	176.1,	180.6,	195.2,
16 days	94.9,	108.8,	115.3,	124.2,	129.7,	133.7,	145.8,	157.8,	165.1,	174.6,	182.4,	188.2,	196.6,	202.7,	207.6,	223.6,
20 days	109.8,	125.3,	132.5,	142.2,	148.3,	152.7,	165.9,	179.1,	187.0,	197.3,	205.8,	212.1,	221.1,	227.8,	233.1,	250.2,
25 days	128.0,	145.2,	153.2,	164.0,	170.6,	175.5,	190.1,	204.5,	213.2,	224.5,	233.7,	240.5,	250.4,	257.6,	263.3,	281.9,

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