

## Appendix 8-1 – Rainfall Depths For Different Recurrence Intervals (Source: Met Éireann) READY



Met Eireann  
Return Period Rainfall Depths for sliding Durations  
Irish Grid: Easting: 274705, Northing: 231472,

DURATION	Interval		Years													
	6months,	1year,	2,	3,	4,	5,	10,	20,	30,	50,	75,	100,	150,	200,	250,	500,
5 mins	2.5,	3.4,	4.0,	4.7,	5.3,	5.7,	7.0,	8.5,	9.5,	10.9,	12.1,	13.1,	14.6,	15.7,	16.7,	N/A ,
10 mins	3.4,	4.8,	5.5,	6.6,	7.3,	7.9,	9.8,	11.9,	13.3,	15.2,	16.9,	18.3,	20.3,	21.9,	23.2,	N/A ,
15 mins	4.0,	5.6,	6.5,	7.8,	8.6,	9.3,	11.5,	14.0,	15.6,	17.9,	19.9,	21.5,	23.9,	25.8,	27.3,	N/A ,
30 mins	5.3,	7.3,	8.4,	10.0,	11.1,	11.9,	14.6,	17.6,	19.5,	22.3,	24.7,	26.6,	29.4,	31.6,	33.4,	N/A ,
1 hours	7.0,	9.6,	10.9,	12.9,	14.2,	15.2,	18.5,	22.1,	24.5,	27.7,	30.6,	32.8,	36.2,	38.8,	41.0,	N/A ,
2 hours	9.3,	12.5,	14.2,	16.6,	18.2,	19.5,	23.4,	27.8,	30.6,	34.5,	38.0,	40.6,	44.6,	47.6,	50.1,	N/A ,
3 hours	11.0,	14.6,	16.5,	19.2,	21.1,	22.5,	26.9,	31.8,	34.9,	39.3,	43.1,	46.0,	50.3,	53.7,	56.5,	N/A ,
4 hours	12.3,	16.3,	18.4,	21.4,	23.3,	24.9,	29.7,	35.0,	38.4,	43.0,	47.1,	50.2,	54.9,	58.5,	61.4,	N/A ,
6 hours	14.5,	19.0,	21.4,	24.8,	27.0,	28.7,	34.1,	40.0,	43.8,	48.9,	53.4,	56.8,	62.0,	65.9,	69.1,	N/A ,
9 hours	17.0,	22.2,	24.9,	28.7,	31.2,	33.1,	39.2,	45.7,	49.9,	55.6,	60.6,	64.3,	70.0,	74.3,	77.8,	N/A ,
12 hours	19.1,	24.8,	27.7,	31.9,	34.6,	36.7,	43.2,	50.3,	54.8,	60.9,	66.2,	70.2,	76.3,	80.9,	84.7,	N/A ,
18 hours	22.5,	29.0,	32.3,	37.0,	40.0,	42.4,	49.7,	57.5,	62.5,	69.3,	75.1,	79.5,	86.2,	91.2,	95.3,	N/A ,
24 hours	25.3,	32.4,	35.9,	41.1,	44.4,	46.9,	54.8,	63.3,	68.6,	75.9,	82.1,	86.8,	93.9,	99.3,	103.7,	118.5,
2 days	30.3,	38.1,	42.0,	47.5,	51.1,	53.7,	62.1,	71.0,	76.5,	84.0,	90.5,	95.3,	102.5,	107.9,	112.3,	127.2,
3 days	34.7,	43.2,	47.4,	53.3,	57.1,	60.0,	68.9,	78.3,	84.1,	92.0,	98.7,	103.7,	111.2,	116.9,	121.4,	136.7,
4 days	38.7,	47.9,	52.4,	58.7,	62.8,	65.8,	75.2,	85.1,	91.3,	99.5,	106.5,	111.7,	119.5,	125.4,	130.1,	145.9,
6 days	46.1,	56.4,	61.5,	68.5,	73.0,	76.4,	86.8,	97.6,	104.3,	113.3,	120.9,	126.5,	134.9,	141.2,	146.2,	163.1,
8 days	52.9,	64.3,	69.8,	77.6,	82.5,	86.2,	97.4,	109.1,	116.3,	125.9,	134.0,	140.1,	149.0,	155.7,	161.1,	179.0,
10 days	59.4,	71.7,	77.7,	86.1,	91.4,	95.3,	107.4,	119.9,	127.5,	137.8,	146.4,	152.8,	162.3,	169.3,	175.0,	193.9,
12 days	65.5,	78.8,	85.3,	94.2,	99.8,	104.0,	116.9,	130.1,	138.2,	149.1,	158.1,	164.9,	174.9,	182.3,	188.2,	208.0,
16 days	77.3,	92.4,	99.6,	109.6,	115.9,	120.6,	134.8,	149.5,	158.5,	170.4,	180.3,	187.7,	198.6,	206.7,	213.2,	234.6,
20 days	88.6,	105.3,	113.2,	124.2,	131.1,	136.3,	151.9,	167.8,	177.5,	190.4,	201.2,	209.2,	220.9,	229.7,	236.6,	259.7,
25 days	102.3,	120.8,	129.6,	141.8,	149.4,	155.1,	172.2,	189.7,	200.3,	214.4,	226.1,	234.8,	247.5,	257.0,	264.5,	289.4,

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](http://www.met.ie/climate/dataproducts/Estimation-of-Point-Rainfall-Frequencies_TN61.pdf)