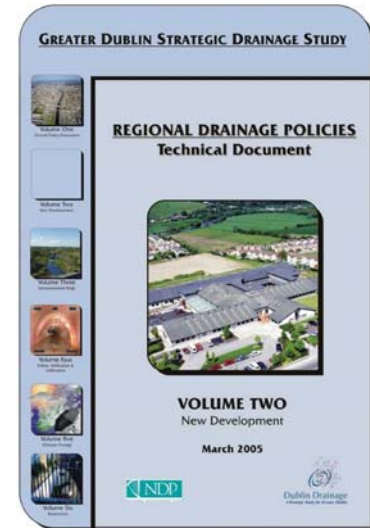


## Greater Dublin - Regional Drainage Policies for new Development

Regional Drainage Policies are now being implemented throughout Greater Dublin. It is now **mandatory** to consider **SUDS**. Daily flows for Foul Water systems have been realigned in accordance with average occupancy rates in the Region, ie 3900 litres per dwelling per day. Storm Water systems will be restricted to the original greenfield runoff rates, no flooding will be tolerated for the 1 in 30 year return period and more extreme rainfall events must be checked to take into account overland flows and climate change.



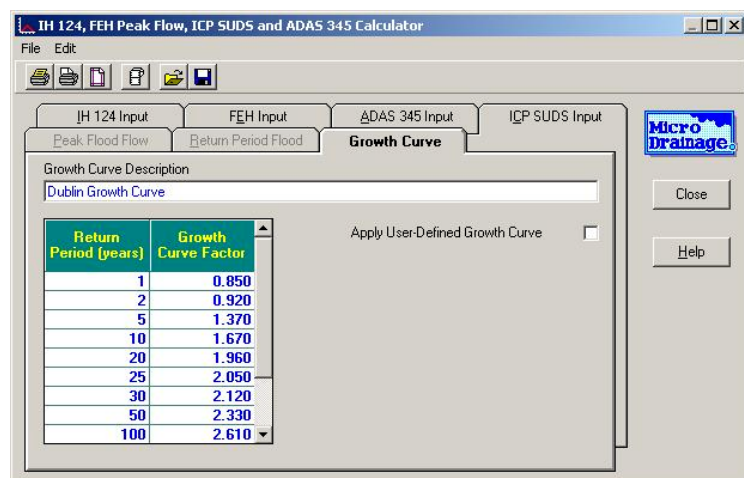
### The determination of allowable discharge from new developments

In order to support these new policies we have incorporated greenfield runoff growth factors for Ireland in Source Control W.10, the following regional factors may be user specified;

**Dublin Growth Curve** - The one year value is from the Greater Dublin Strategic Drainage Study, Volume 2 and is 0.85.

All other values are derived from “An Investigation of the Flood Studies Report ungauged catchment method for Mid-Eastern Ireland and Dublin”, source: Michael Bruen – Equation 7.

1	0.85
2	0.92
5	1.37
10	1.67
20	1.96
25	2.05
30	2.12
50	2.33
100	2.61
200	2.89



The allowable storm water discharge off site will be limited to the original green field runoff, using IH124.

The IH124 method is based on the Flood Studies Report approach and developed for use on catchments less than 25 km<sup>2</sup>.

It yields the Mean Annual Maximum Flood (QBAR).

Region	QBAR [l/s]	Q (50 yrs) [l/s]	Q (1 yrs) [l/s]	Q (30 yrs) [l/s]	Q (100 yrs) [l/s]
1	14.3	30.3	12.1	27.0	35.4
2	14.3	31.1	12.4	27.1	37.6
3	14.3	27.1	12.3	25.1	29.7
4	14.3	31.5	11.9	28.0	36.7
5	14.3	40.6	12.4	34.3	50.9
6/7	14.3	37.4	12.1	32.4	45.6
8	14.3	30.3	11.1	27.2	34.6
9	14.3	27.7	12.6	25.2	31.1
10	14.3	26.4	12.4	24.2	29.7
Ireland National	14.3	24.3	12.1	22.7	26.3
Ireland East	14.3	24.9	12.1	23.3	27.1
Ireland South	14.3	24.3	12.1	22.7	26.3
Ireland West	14.3	23.4	12.1	22.1	25.4
User Defined	14.3	33.3	12.1	30.3	37.3

Discharges for the 1 and 100 year return periods may be matched provided that runoff volume balance is achieved, otherwise the maximum allowable discharge will be set at the QBar value.

If QBar or 1 Year RP are less than 2l/s/ha then 2l/s/ha is to be allowed.

### Risk & exceedance (Flooding).

The drainage network must be designed to ensure that there is **no flooding** for the 1 in 30 year Return Period.

The **flood flow paths** must be analysed and managed for the 1 in 100 Year return period, a 500mm freeboard must be provided below floor levels.

River protection (Floodplain Corridors) generally 100 year + 500mm freeboard to floor slabs. Where the 100 year levels are not achievable then the corridor must be protected to at least the 50 year level.



**Climate change** equivalent to +10% on rainfall, 20% for rivers.

We have updated the WinDes software and training courses in response to the latest standards. Click here for [training dates](#).

For any queries on how to comply with the latest standards and the WinDes modules you require [click here](#).