

River Name	Dalua(18_1762)
XY Location	130896,104737 (ING)

River Segment Map



Disclaimer

The source hydrometric data used to estimate the flow duration curve ordinates for ungauged catchments was obtained from (1) water level data and (2) the rating curve(s) generated for each hydrometric station. The Environmental Protection Agency and the Office of Public Works used these data, respectively, to calculate daily mean flows. The daily mean flows were then used by the Environmental Protection Agency to prepare flow duration curves for each station. Neither body accepts any liability for the subsequent handling of the data.

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The user should familiarise himself/herself with the catchment being studied and confirm that the ungauged site is in a natural catchment where flows conditions are suitable for the use of the model.

It is strongly recommended that the user examine the catchment descriptors contained in the report produced and confirm that the percentages of the various constituent elements are comparable to a natural catchment.

If the flow in a catchment is not entirely natural, the estimation of flows using the model in these catchments could be affected due to:

- existence of local conduit karst within the catchment;
- the selected location itself is on local conduit karst;
- regulation of the river flow on the river channel (e.g. power station, sluice gates etc)
- impacts of abstractions upstream of the selected location or the impact of the discharge associated with the abstraction into the same/different catchment;
- estimates of flow being sought at locations effected by storage effects at, or near, lake outfalls;
- lack of similar catchments with observed flows, ie where catchment descriptors lie outside the range of available gauging station catchments (e.g. the catchment area is under 5 km²);
- any other special circumstances that may affect river flows.

Expert judgement will be required to ensure that the estimate of flow is not unduly affected by any of these influences.

Please note that the model does not provide estimates of flood peaks and, specifically, should not be used for that purpose.

The EPA has also prepared estimates of DWF and long term 95 percentile flows which are also presented on the EPA web site. These data are presented at <http://www.epa.ie/whatwedo/monitoring/water/hydrometrics/data/>

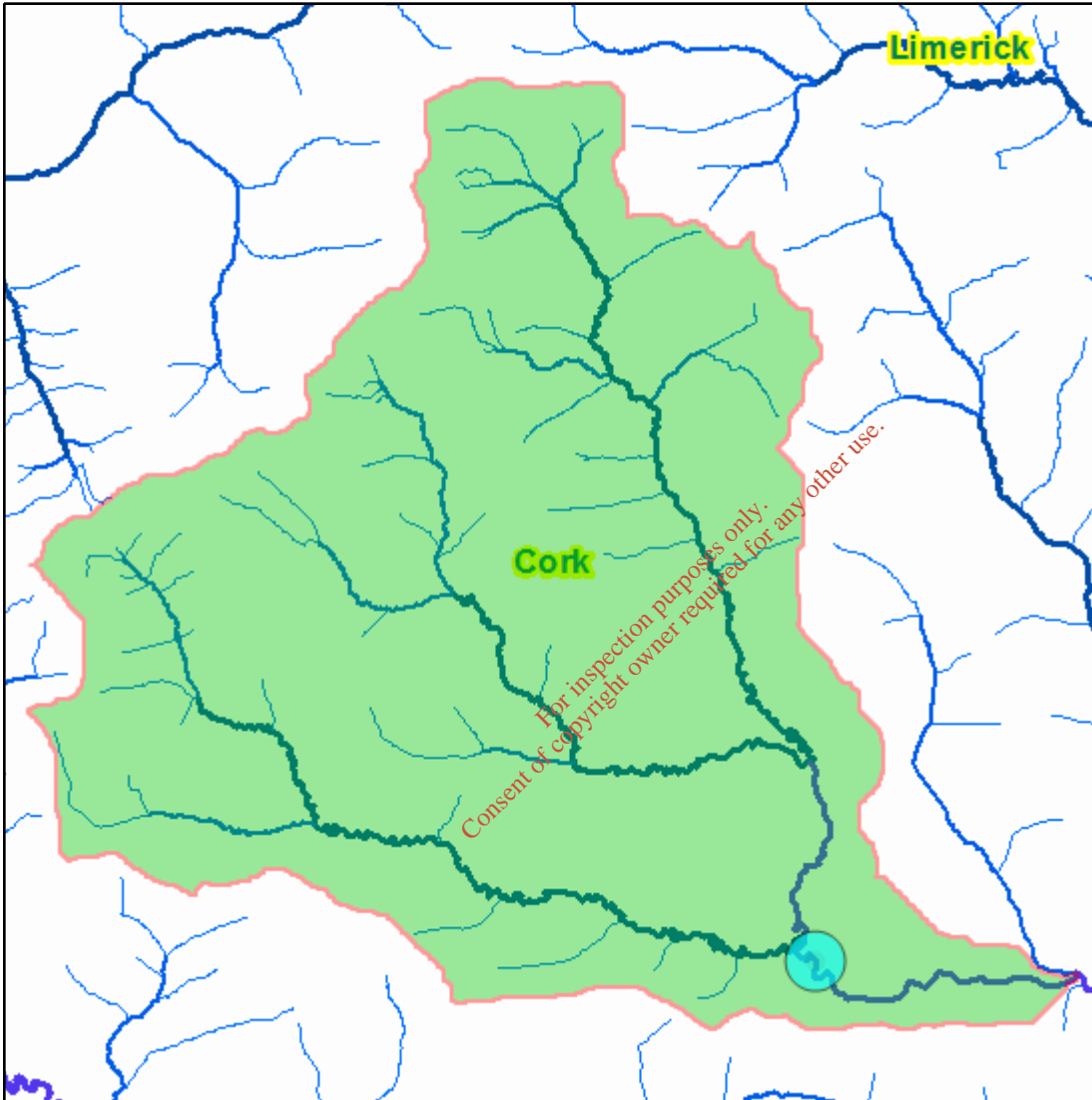
The data produced by the model for specific stations should be compared to the data contained in this file of DWF and long term 95percentile flows.

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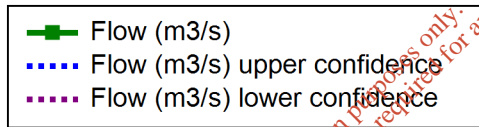
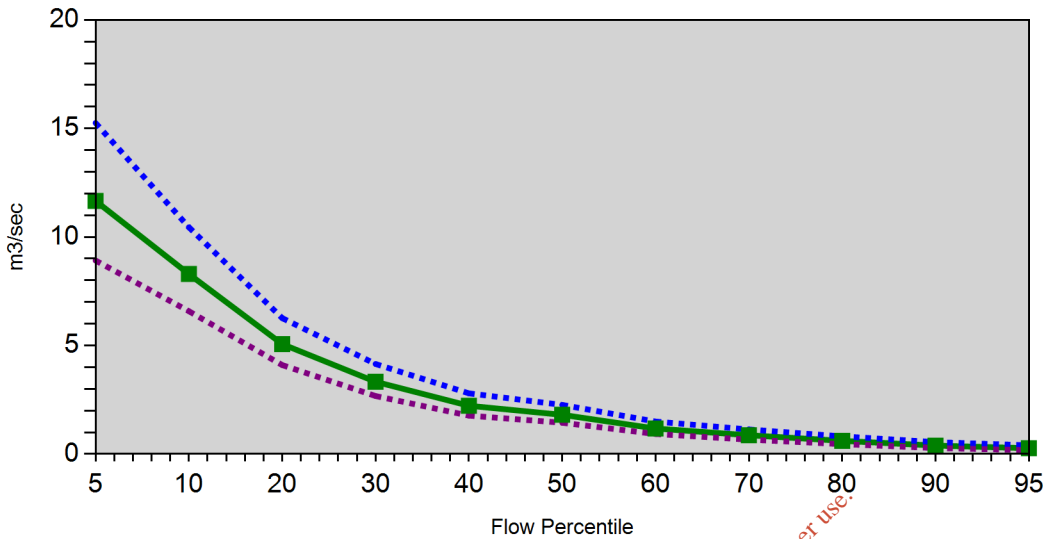
Nested Catchment Map



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Flow Duration Curve (Flow in m3/sec)



%ile	flow(m3/sec)	upper 95% confidence limit m3/sec	lower 95% confidence limit m3/sec
5	11.66	15.251	8.914
10	8.291	10.447	6.58
20	5.065	6.261	4.098
30	3.329	4.148	2.672
40	2.224	2.796	1.769
50	1.806	2.262	1.441
60	1.175	1.496	0.923
70	0.865	1.131	0.662
80	0.608	0.812	0.456
90	0.388	0.548	0.275
95	0.268	0.402	0.179

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Catchment Descriptors		
General		
Descriptor	Unit	Value
Area	sq km	88.1
Average Annual Rainfall (61-90)	mm/yr	1405
Stream Length	km	101.2
Drainage Density	Channel length (km)/catchment area (sqkm)	1.1
Slope	Percent Slope	8.6
FARL	Index (range 0:1)	1

Soil	
Code	% of Catchment
Poorly Drained	49.7
Well Drained	33.8
Alluvmin	4.4
Peat	12
Water	0
Made	0.2

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Subsoil Permeability		
Code	Explanation	% of Catchment
H	High	0
M	Moderate	1.7
L	Low	67
ML	Moderate/Low	0
NA	No Subsoil/Bare Rock	31.3

Aquifer		
Code	Explanation	% of Catchment
LG_RG	LG: Locally important sand-gravel aquifer RG: Regionally important sand-gravel aquifer	0
LL	Locally important aquifer which is moderately productive only in local zones	97.6
LM_RF	LM: Locally important aquifer which is generally moderately productive RF: Regionally important fissured bedrock aquifer	0
PU_PL	PU: Poor aquifer which is generally unproductive PL: Poor aquifer which is generally unproductive except for local zones	2.4
RKC_RK	Regionally important karstified aquifer dominated by conduit flow	0
RKD_LK	Regionally important karstified aquifer dominated by diffuse flow	0

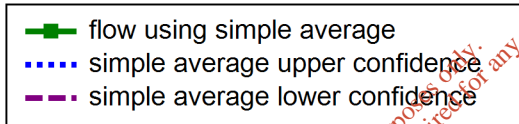
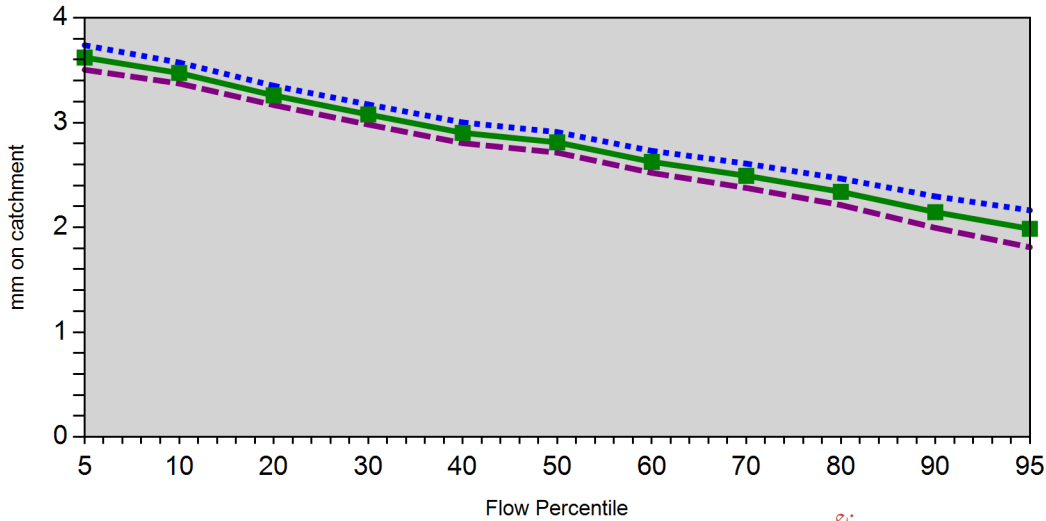
Stations in Pooling group			
%ile Flow	Station 1	Station 2	Station 3
5	23017	36021	23005
10	23017	36021	23005
20	23017	36021	23005
30	23017	36021	23005
40	23017	36021	23005
50	22003	18006	22043
60	22003	18006	23005
70	22003	18006	23005
80	22003	18006	23005
90	22003	18006	23005
95	22003	18006	23005

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Flow Duration Curve (mm on catchment)



Log Flow (mm on catchment)

%ile	mm	upper 95% confidence limit	lower 95% confidence limit
5	3.621	3.738	3.504
10	3.473	3.573	3.373
20	3.259	3.351	3.167
30	3.077	3.173	2.981
40	2.902	3.001	2.803
50	2.811	2.909	2.713
60	2.625	2.73	2.52
70	2.492	2.608	2.376
80	2.339	2.465	2.213
90	2.145	2.295	1.995
95	1.986	2.162	1.81

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