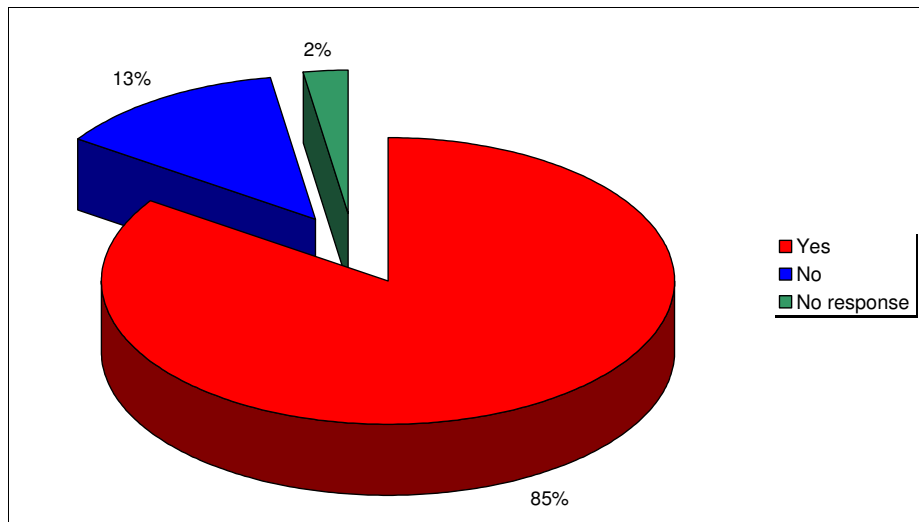


Flood Studies Update: Work Package 4.1 - Scoping Study of Urban Flood Issues

Category: Flood Risk Management



Importance of urban flooding issues in the everyday work of respondents to the study

Description:

The objectives of Work-Package 4.1 were to carry out a scoping study of urban flood issues by :

- Reviewing the methods of flood estimation in urbanised catchments currently in use in Ireland and in other countries;
- Assessing any broader deficiencies associated with urban-runoff control in Ireland;
- Developing achievable objectives for further work-packages under the *Urban Catchment Flood Analysis* Work-Group (WG4) of the Flood Studies Update Programme.

The resulting report was divided into six chapters. Chapter 1 presents an introduction to the Work Package. Chapter 2 presents, in summary, methods of assessing and managing urban floods in other regions of the world. The regions include Europe, Australia, the US, Asia and South Africa. Where possible, an attempt is made to assess these regions in an Irish context and to explain the commonly used methods of peak flow estimation and stormwater management.

Chapter 3 sets out the rationale of the work-package and includes the aims and objectives of the work. Chapter 4 of the report outlines the approach that was adopted to satisfy these objectives. This approach comprised both quantitative (questionnaire survey) and qualitative research (Focus Groups) elements and the manner in which these were undertaken is presented.



Chapter 5 comprises the results of the study. Results derived from quantitative research are generally presented in graphical or tabular formats and where appropriate, are supported by results from the qualitative research element.

The report finishes with the overall conclusions (Chapter 6) and in accordance with one of its objectives, makes recommendations for further Research and Development. The recommendations for improving methodologies for Urban Catchment Flood Analysis are based on this study and are therefore linked to specific problems encountered by practitioners on a day-to-day basis.

For further information about this work, please contact: oliver.nicholson@opw.ie

Design Team:

The OPW is responsible for the specification, procurement and direct management of the Flood Studies Update Programme, with technical direction provided by a Technical Steering Group, comprising representatives of the primary state / semi-state organisations involved with hydrology, hydrometric monitoring and associated research in Ireland, viz. OPW, Met Éireann, Environmental Protection Agency, Electricity Supply Board, IHP / ICID National Committee, and has two technical experts.

Construction Team:

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Dates:

Work Package 4.1 of the Flood Studies Update Programme was completed in December 2006.