

Flood Risk Management Plans in the North West – Part 2

John Lymer
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Greater Manchester – Table 9 extract

Key parts of FRMP

- ➔ Data and Maps
- ➔ Conclusions
- ➔ Objectives
- ➔ Measures
- ➔ Sec 10 – surface water flood risk areas
- ➔ Sec 11 Catchment Summaries

LLFA	People at risk from River and Sea			People at risk from Surface Water		
	High risk	Medium risk	Low risk	High risk	Medium risk	Low risk
Bolton	1,095	728	3,574	2,021	6,491	26,562
Bury	667	820	5,125	2,002	4,994	19,411
Oldham	220	900	2,183	3,010	6,705	24,135
Manchester	777	4,761	17,491	195 [#]	5,184	43,019
Rochdale	230	575	3,882	2,970	6,672	22,934
Salford	380	246	35,882	428 [#]	3,760	22,725
Stockport	648	1,102	1,922	0 [#]	4,810	27,730
Tameside	227	747	2,258	837 [#]	5,609	23,608
Trafford	420	202	7,059	0 [#]	2,740	17,169
Wigan	2,418	2,996	12,165	2,310 [#]	7,767	34,272

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Merseyside – Table 9 extract

LLFA	People at risk from River and Sea			People at risk from Surface Water		
	High risk	Medium risk	Low risk	High risk	Medium risk	Low risk
Sefton	150	72	13,418	1,788 *	34,317 *	62,425 *
Liverpool	1,363	3,109	5,416	1,828 *	7,605 *	49,059 *
Knowsley	300	448	994	684	2,688	13,287
Wirral	96	63	5,654	2,453	6,693	30,797

** These LLFAs have alternative outputs from more detailed local modelling and analysis*

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Cheshire/Mid-Mersey – Table 9 extract

LLFA	People at risk from River and Sea			People at risk from Surface Water		
	High risk	Medium risk	Low risk	High risk	Medium risk	Low risk
St Helens	220	183	1,358	552 [#]	4,648	17,869
Halton	589	227	1,179	127 [#]	2,794	12,333
Warrington	7,879	4,013	21,093	0 [#]	2,764	20,908
Cheshire West & Chester	949	420	4,234	1,083 [#]	5,873	28,870
Cheshire East	1,055	871	4,617	0 [#]	7,374	32,052

small counting error being resolved

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Cumbria & Lancs – Table 9 extract

LLFA	People at risk from River and Sea			People at risk from Surface Water		
	High risk	Medium risk	Low risk	High risk	Medium risk	Low risk
Lancashire	6,793	13,143	89,955	11,503	29,248	122,148
Blackburn with Darwen	742	1,034	2,046	2,186	5,335	18,621
Blackpool	2	1,189	8,006	738	3,384	15,754
Cumbria	4,841	10,116	26,912	N/A	N/A	N/A

N/A - Cumbria CC didn't want figures shown in FRMP before their Local Strategy went public

Conclusions: Does FRMP capture the main flood risk issues/priorities?

- ➔ Rivers/sea - 339,000 people & 43,800 non-residential
- ➔ Surface water – 568,000 people & 64,000 non-residential
- ➔ Sewer flood risk explained; groundwater not significant in NW
- ➔ Historic floods, changes since & risk now eg. Salford
- ➔ Flood Hazard eg. basement flats & underground parking
- ➔ Steep uplands/thin soils/clay - flash flooding - locations?
- ➔ Build differently and make space – blue/green infrastructure
- ➔ Ageing infrastructure (eg. 3,000 culverts on main river) increases flood risk – WFD opportunities too
- ➔ Climate Change – possible impacts not re-assessed
- ➔ Shoreline Management Plan shows approach for coast
- ➔ Land mgt. change & upland storage – what/how much?

Objectives:

EA LLFA

- Right objectives & balance?
- What would you change?

Social	Economic	Environmental
<p>Impact on people, property, infrastructure & services</p> <p><i>Awareness & self-help</i></p> <p><i>Warning systems</i></p> <p><i>Poorer communities</i></p>	<p>Resilient businesses and sustainable growth</p> <p><i>Reduce annual damages</i></p> <p><i>Minimise whole-life costs vs. service levels</i></p>	<p>Clean, safe water envt, diverse flora/fauna, ecological connectivity & green infrastructure</p> <p><i>Sustainable land use & enhance heritage</i></p>
<p>Recreation and heritage</p>	<p>Integrate water management and sustainable drainage</p>	<p>Work with natural processes</p>
<p>Ecosystem services</p> <p><i>Roles/responsibilities</i></p>	<p><i>Insurance affordability and balance with property level protect'n</i></p>	<p>Climate change adaptation – make space for water</p> <p><i>SuDS & overland flow</i></p>
<p>Flooding from sewers and interruptions to water supply</p> <p><i>Infrastruc. resilience</i></p>	<p><i>Maint. requirements</i></p> <p><i>Funding</i></p>	<p>Sustainable soil management</p>

Proposed Measures – any missing from the FRMP or need changing?

- ➔ Typically projects a few years away, not yet funded - FRMP now consulting on them
- ➔ Prevention – Town & Country Planning
- ➔ Protection – build/improve/maintain defences, wetlands, storage, PLP, use reservoirs
- ➔ Preparedness – modelling, mapping, raise awareness, g/water studies, incident planning
- ➔ Recovery & Review – learn from incidents

Questions?

www.gov.uk/government/consultations/draft-flood-risk-management-plans

(consultation ends on 31 January 2015)

(Solway Tweed consultation ends 2 June 2015)

www.gov.uk/government/consultations/update-to-the-draft-river-basin-management-plans

(consultation ends on 10 April 2015)

