

Table B1 : Historic Flooding Records from watercourses within Uttoxeter

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
1	Near Uttoxeter	River Dove	Oct 1903	Staffordshire Past-Track http://www.staffspasttrack.org.uk/	Photos showing waterlogged fields
2	Hockley Road	Picknall brook Cause i?	1946	Staffordshire Past-Track http://www.staffspasttrack.org.uk/	3ft/1m depth Photo included
3	Hockley Road	Picknall brook Cause i?	2000	Picknall Brook SFRM 2005-6, June 2006	81.34m AOD
4	Downstream of Hockley Road	Picknall brook Cause i?	2000	Picknall Brook SFRM 2005-6, June 2006	81.20m AOD
5	Bridge Street/Brookside Road	Picknall brook Cause i?	2000	Picknall Brook SFRM 2005-6, June 2006	77.67m AOD
6	Station Road Brookside Road	Picknall brook Cause i?	2000	Picknall Brook SFRM 2005-6, June 2006	77.72m AOD
7	Hockley Road	Picknall Brook Cause i?	Oct/Nov 2000	Picknall Brook SFRM 2005-6, June 2006	5 properties flooded.
8 (8a-8b)	<i>Stafford Road to Racecourse</i>	<i>Picknall Brook Cause i?</i>	<i>Dec 2003</i>	<i>Environment Agency 'Provision of Flood Warnings' Report to Defra April 2005</i>	<i>Flood Warning given Floodplain flooded only</i>
9	Dove Bank	Snow thaw so possibly Cause iv?	1946	Staffordshire Past-Track http://www.staffspasttrack.org.uk/	Photo included
10	Railway line	Cause iv?	Nov 2000	BBC Nottingham News http://www.bbc.co.uk/nottingham/news/2000_11/09/floods_travel_details.shtml	Railway line closed Stoke on Trent to Derby line
11	Foxglove Avenue Area	(Feeder brook to Picknall) Cause iii and cause i	Regular	Emma Roberts (Council)	Big flood problem just after the three tributaries join as the culvert is not big enough to cope with the runoff from hills plus the new development (housing estate)

12	Kingfisher Way	(Feeder brook to Picknall Brook) Cause i and cause iii	Winter 2006/7 and a few before	Emma Roberts (Council)	Problems with the capacity of the culvert
13	Between Park Street and The Dove Way	Cause iii	?	Emma Roberts (Council)	Very small section of culvert neglected by the EA. Force of water pushed the culvert and resulted in the need for rebuilding.

Notes

1. The above is not an exhaustive list of flooding records.
2. Causes of flooding
 - i. Overflow of watercourses and existing flood defences including water retention facilities such as flood storage reservoirs/washlands and storm water balancing ponds;
 - ii. Breaching of flood defences (including flood storage areas)
 - iii. Mechanical, structural or operational failure (including due to blockages) or hydraulic structures, pumps etc;
 - iv. Localised surface water flooding (including sewer flooding and overland flooding);
 - v. Functional Floodplains or Washlands; and
 - vi. Groundwater flooding.
3. *Italic and underlined* numbers indicate a general, unspecified location (e.g. an event affecting an entire town or a long stretch of river)

Table B2 : Historic Flooding Records from watercourses within Burton upon Trent

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
14	Derby Road	Trent Cause i	Jan 1887; Jan 1889; March 1889; 1892	Hydrochronology Database (http://134.36.96.5/default.htm)	1887 due to snow thaw
15	Unspecified – Burton generally	River Trent Cause i	1254; 1255; 1284; 1380; 1402; 1574; 1790s; 1795; 1830; Nov 1852; July 1875; Oct 1875; Dec 1876; Feb 1881; March 1881; Apr 1886; May 1932; 1912 Feb 1795 Oct 1875 May 1932 March 1947	Hydrochronology Database (http://134.36.96.5/default.htm) EA Trent CFMP EA Trent CFMP EA Trent CFMP EA Trent CFMP	1881 from snow melt 1875 – thousands acres underwater, many streets impassable on foot, lower stories of hundreds houses uninhabitable, dead cattle and hay passing July 1875 – railway flooded 0.2% AP 1 in 500yrs Extent and depth worst on record 0.5% AP 1 in 200yrs 2 nd worst on record Thousands of properties in Burton

			Dec 1960	EA Trent CFMP	flooded
			Jan 1982	EA Trent CFMP	Burton and surrounding villages affected
			Nov 2000	EA Trent CFMP	Major flood defences not overtopped or breached Peak flow 385 m ³ /s 2%-4% AP (depending on location) 1 in 50 to 1 in 20 years
16	New Street Union Street	River Trent Cause i	1875	Staffordshire Past-Track http://www.staffspastrack.org.uk/	Photographs
17	Unspecified	River Trent Cause i and Cause iv	1947	BBC News Online 06/04/2004 EA Flood Alleviations work leaflet 2006 Trent CFMP	Combination of heavy rain and melting snow Considerable numbers of properties flooded Resulted in building of the original flood defences Freeze and rapid thaw left thousands of properties flooded -> catalyst for present flood defences

18	Hay Sidings	River Trent Cause i	1912	Staffordshire Past-Track http://www.staffspasttrack.org.uk/	Includes photos
19	Burton Bridge and Meadowside Leisure Centre	River Trent Cause i	Nov 2000	Staffordshire Past-Track http://www.staffspasttrack.org.uk/ EA Flood Alleviations work leaflet 2006	Includes photos Highest level since 1947
<u>20</u>	Unspecified	River Trent Cause i?	Autumn 2000	Environment Agency Summary Report... EA Burton upon Trent Flood Risk Management Project Draft Environmental Report Nov 2005 EA Flood Alleviations work leaflet 2006	Existing defences fully extended and some minor local problems experienced Existing defences upgraded to 200yr standard in 2006/7 -> raising/ strengthening of 6km, walls and embankments (Branston to Clay Mills)
<u>21</u>	Burton to (Castle Donington)	River Trent Cause i?	Nov 2000 <i>Dec 2003 & Jan 2004</i>	The Independent 7/11/2000 <i>Environment Agency 'Provision of Flood Warnings' Report to Defra April 2005</i>	'Severe Flooding' <i>Flood warning given</i>
<u>22</u>	<i>Town Centre and from Branston to Stretton</i>	<i>River Trent and Trent and Mersey Canal Cause i</i>	<i>Nov 2000</i>	<i>The Independent 7/11/2000</i>	<i>Warning Only Possible evacuation...</i>
23	Area around suspension bridge at Stapenhill	River Trent Cause i	Nov 2000	http://www.sln.org.uk/geography/Geography Staffordshire Learning Net	Photos included
24	Rugby Pitches (close to the bridge above on Lichfield St?)	River Trent Cause i?	Nov 2000	http://www.sln.org.uk/geography/Geography Staffordshire Learning Net	Photos included
25	Around Stapenhill road bridge	River Trent Cause i?	Nov 2000	http://www.sln.org.uk/geography/Geography Staffordshire Learning Net	Photos included

26	Paget High School to Drakelow Power Station	River Trent Cause i?	Nov 2000	http://www.sln.org.uk/geography/Geography Staffordshire Learning Net	Photos included
27	Unspecified	River Trent Cause i?	June 2007	BBC Stoke and Staffordshire http://www.bbc.co.uk/stoke/content/image_galleries/flood_230707_gallery.shtml?19	Photos included
28	Horninglow Street next to Plough Inn	River Trent Cause i?	1875	Staffordshire Past-Track http://www.staffspastrack.org.uk/	Photos included
29	Guild Street looking towards Station Street	River Trent Cause i?	Dec 1910	Staffordshire Past-Track http://www.staffspastrack.org.uk/	Photos included
	Junction of Union Street, Guild Street and Station Street	River Trent	Oct 1875		
30	Burton Library Area	River Trent Cause i?	2000	Staffordshire Past-Track http://www.staffspastrack.org.uk/	Photos included
31	Guild Street, Tatenhill Common, Price Court Shobnall Road, Albion Pub Shobnall Road, Henhurst Hill	Shobnall Brook Cause iv	July 1999	The UK Storm Guides http://www.ukspeedtraps.co.uk/weather/burtonflood.htm Emma Roberts (Council)	Any house below road level on Henhurst Hill was flooded out. Cars were washed off drives, Fire engines were stranded. Damage extensive in some parts of Burton, mainly to homes and offices. Includes photos Flooding along the entire length Overloading of highway drainage system
		161 Forest Road to 208 Shobnall Road Cause iv and possibly cause iii			

32	Kitling Greaves Lane	'Kitling Greaves Brook' Cause iii	June 1999	Emma Roberts (Council)	Blinding of grill Houses flooded on Kitling Greaves Road and 1 house on the Tutbury Road junction Desilted after event, now in Highways Agency control. Nothing since
33	Harlech Way	Kitling Brook and Bitham Lane Brooks (Knightsbridge Way Balancing Lake) Cause iii	November 2000	Emma Roberts (Council)	All grills blinded on balancing lake leading to flooding on both feeder brooks 6-8 houses flooded as drainage backed up the clean water sewer and resulted in flooding upwards into homes Possibly gate on Horninglow Channel to Trent did not shut properly or grills blocked so also backed up. Alarms have now been installed in culverts, plus improved grill cleaning and regular inspections 2 houses uninhabitable for 1 yr

34	Hillfield Lane	Cause iv	Potentially	Emma Roberts (Council)	The road was closed by the building of the A38. No drainage for runoff. Assumed Highways Agency has solved...
35	Clay Mills Road	Cause iv	Potentially/ Historically??	Emma Roberts (Council)	Road reconstructed and drainage system needs rebuilding (6-7yrs ago) Reconnected to Dove since and no problems yet.
36	Lordswell Road	Field Ditch Cause iii and cause iv Cause iii	July 1999	Emma Roberts (Council) Shobnall Brook Hydraulic Investigation Appraisal Report May 2002	No grill arrangement or culvert so blocked and overland flows into living rooms The entrance has now been reprofiled (by landowner) and cleaned more regularly Blocked inlet at convergence south of Lordswell Road/Sinai Close where 2 culverts meet. Water therefore backed up

37	Brough Road, Sales Lane, Newton Leys	Dale Brook Cause iv	1996/7	Emma Roberts (Council)	Work carried out in end of 1990s, early 2000s Possible construction of storage tank in school No flood events since Few other minor problems in the area
38	Ashby Road	Cause vi Spring initiates in residential back garden	Occasional	Emma Roberts (Council)	Improvements have been made to stop the water from the spring running down the road but still minor flooding in winter
39	Open end of culvert on Stapenhill Brook	Cause iii	Early 1990s	Emma Roberts (Council)	Child's tricycle became wedged in the open end of culvert. Culvert exploded and subsequently had to be rebuilt
40	Newton Road?	Cause i (River Trent) and Cause iii	November 2000 and summer 2007	Emma Roberts (Council)	Flood bund put in behind houses after the November 2000 floods. This failed in summer 2007 when man hole (built since bund was emplaced on dry side lower than wet side) resulted in a fountain of water. No properties flooded as

					EA responded with pumps, only gardens
41	A38 in Branston	Cause iv?	Summer 2007	Emma Roberts (council)	Flooded both sides, which leads to potential problems for developments 43 and 44
42	Branston water park	Tatenhill Brook	November 2000	Emma Roberts (council)	Trent and brook both in flood. No defences
43	Clays Lane	Cause iii and iv	Mid-late 1990s	Emma Roberts (council)	Doorway flooding Historic highways agency capacity problem, resulted in complete desilting. Now sorted so no future problems expected.

Notes

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 - ii. Breaching of flood defences (including flood storage areas)
 - iii. Mechanical, structural or operational failure (including due to blockages) or hydraulic structures, pumps etc;
 - iv. Localised surface water flooding (including sewer flooding and overland flooding);
 - v. Functional Floodplains or Washlands; and
 - vi. Groundwater flooding.
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Table B3 : Historic Flooding Records from watercourses within Other Areas

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
44	Burton Street, Tutbury	Cause iv?	Oct 1875	Hydrochronology Database (http://134.36.96.5/default.htm)	Depth varying from 6 inches to 4 ft
45	Dove Catchment	River Dove Cause i	Dec 1991; Jan 1995; Mar - Apr 1998; Oct 1998; Oct -Nov 2000; Dec 2002	EA River Dove Strategy April 2006	Dec 1991 = highest recorded flow at Rocester gauging station
46	Marchington and Rolleston	River Dove Cause i and v	October 2000	EA River Dove Strategy April 2006	Prolonged event that saw much of the Dove's natural floodplain storage in use
47	Upper Trent Area	Trent and Tributaries? Cause i?	1932; 1947; 1960; 1981; 1987; 1990	Picknall Brook SFRM 2005-6, June 2006	Significant Events
48	JCB Factory, Rocester	River Dove or River Churnet	Oct & Nov 2000	Picknall Brook SFRM 2005-6, June 2006	1 property flooded
49	Hoar Cross	Cause iv	June 1900	Hydrochronology Database (http://134.36.96.5/default.htm)	Several cottages flooded as rain was too heavy for drains to carry water away
50	<i>(Leek) to Rocester</i>	<i>River Churnet Cause i?</i>	<i>Dec 2003; Jan & Feb 2004</i>	<i>Environment Agency 'Provision of Flood Warnings' Report to Defra April 2005</i>	<i>Flood warning given</i>
51	<i>(Izaak Walton) to Rocester</i>	<i>River Dove Cause i?</i>	<i>31/01/2004</i>	<i>Environment Agency 'Provision of Flood Warnings' Report to Defra April 2005</i>	<i>Flood warning given</i>
52	<i>Rocester to Doveridge</i>	<i>River Dove Cause i?</i>	<i>Jan & Feb 2004</i>	<i>Environment Agency 'Provision of Flood Warnings' Report to Defra April 2005</i>	<i>Flood warning given</i>

53	Doveridge to Marston on Dove	River Dove Cause i?	Jan 2004	Environment Agency 'Provision of Flood Warnings' Report to Defra April 2005	Flood warning given
54	Marston on Dove to Clay Mills	River Dove Cause i?	Jan 2004	Environment Agency 'Provision of Flood Warnings' Report to Defra April 2005	Flood warning given
55	Yoxall to Drakelow (Burton on Trent)	River Trent Cause i?	Jan 2004	Environment Agency 'Provision of Flood Warnings' Report to Defra April 2005	Flood warning given
56	Rocester to Uttoxeter	River Dove	Nov 2000	BBC News http://news.bbc.co.uk/1/hi/uk/1009131.stm	Flood warning given
57	Station Road, Barton Under Needwood	Cause i or cause iv?	Jun 2007	Staffordshire Fire and Rescue Service http://www.staffordshirefire.gov.uk	100 sheep rescued
58	Lower reaches of Dove -Marchington, Aston Bridge, (Hatton), Rolleston on Dove and (Egginton)	River Dove	Unspecified	River Trent Catchment Flood Management Plan, Nov 2006 (EA)	Problematic Flood Spots
59	Red Lion Public House, Newborough	River Swarbourn Cause i	Historically	Landshapes http://www.landshapes.org/index.php?fuseaction=viewreference.main&reference=6D081615&from=catexp&reftype=4&browseby=reftype&page_no=15	'has been known to flood the property'
60	Yoxall, Victoria Street and Main Street	River Swarbourn Cause i?	Summer 2007	Yoxall Parish Magazine http://www.stpeterschurch-yoxall.co.uk/Sept07.pdf	High risk of flooding – sandbags used
61	Tatenhill – culverted section through old mill	Tatenhill brook Cause iii	July 1999	Emma Roberts (council)	Culvert blinded by a tree trunk so back up and culvert collapsed. Houses flooded from surface water
	Tatenhill	Tatenhill Brook Cause i or Cause iii	July 1999	Tatenhill Brook Hydraulic Investigation Appraisal Report	The Old Mill House (Cellar 8'6" deep),

	- Main Street and Branston Road	(does not state) 'Watercourse' (Tributary to Brook) (Cause i) 'Other Flooding' (Cause iv and Cause ii) Cause iii			<p>Park Cottage, 3 x Brookside Cottages (Inundated) and Rose Cottage (inundated), Cliff Cottage (inundated), Bankcroft (Farm Stock)</p> <p>Uplands House, The Nook (also raw sewage) and The Willows (also raw sewage)</p> <p>The Green (brook retaining wall damaged), Shelley House (inundation from road, including raw sewage), Battlestead Cottage (inundation from road), Stanbrook House (inundation of garden from the road), The Old Rectory (damage to antique stock from inundation from road), Manor Croft (inundation from fields), Bourne Croft (inundation of garden from road), The Yews (damage to boiler), The Grove, Hillside (damage to drive)</p> <p>Callingwood Lane culvert collapsed</p> <p>[Plan and Insurance Flood Damage available]</p>
62	Barton under Needwood	Barton Brook Cause iii	?	Emma Roberts (council)	Grill blinded and A38 flooded leading to traffic problems. In Highways Agency control now.

85	Wales Lane, Barton under Needwood	Barton Brook Cause iii	?	Barton Brook Improvement Scheme 1989	<p>“The watercourse enters a box culvert which then turns through approx 90° again and passes the watercourse under the highway to emerge into a narrow channel adjacent to No. 55 Wales Lane. The losses at the bends and the restricted channel at the outlet force flood waters to mount the bank at the first culvert entrance flooding surrounding property before returning to the watercourse further downstream.</p> <p>A water main obstructing the entrance to the culvert was diverted in April 1989”</p>
86	St James Road, Barton under Needwood	Barton Brook Cause iii	?	Barton Brook Improvement Scheme 1989	<p>“Flooding occurs along rear garden and into some properties due to the inadequacy of the culvert under St James Road and to restricted channel widths upstream”</p>

87	Efflinch Lane, Barton under Needwood	Barton Brook, Cause iii and Cause ii	?	Barton Brook Improvement Scheme 1989	<p>“Flooding occurs upstream of the Efflinch lane culvert in the area adjacent to the fishing pond and the sports ground. Property adjacent to the watercourse in this area also suffers flooding.</p> <p>The pond take off is upstream of the weir. In times of storm, control on the outlet causes the pond to overtop the bank flowing into the watercourse. Further restrictions in the main channel of the brook creates an on-line pond effect establishing the flood pattern experienced. A water main obstructing the bed of the culvert was diverted in April 1989.”</p>
88	Land upstream of the Trent and Mersey canal, Barton upon Needwood	Barton Brook Cause i and Cause iii	?	Barton Brook Improvement Scheme 1989	“Flooding of the fields occurs at the entrance to the culvert, which may be exacerbated by the inefficient operation of the trash screen”
89	Meadow Rise, Barton upon Needwood	Barton Brook, Cause i	?	Barton Brook Improvement Scheme 1989	“Extensive flooding of rear gardens adjacent to the watercourse has occurred on a regular basis (at least one per year) and has extended to the cartilage of the nearest buildings”
63	Yoxall	River Swarbourn Cause iii	November 2000 (+ events before and after this)	Emma Roberts (Council)	3 arches on the bridge, one became blocked. Below this is a weir with a utilities sewer in it. The weir level is crucial

	(Principle areas affected are Victoria St, Bond St and Main St)		November 2000 and August 1987	JMP River Swarbourn Flood Modeling and Alleviation December 2002	<p>but cannot be removed. In the future is possibly a location for a demountable defence</p> <p>Both large flood events - both flooded a large part of the village centre and caused damage to homes and businesses Water rose fast with very little warning – rapid response catchment: 7-8hours Channel has a steeper than normal gradient Other potential sources of a flood surge are upstream</p> <p>2000 event followed a period of very wet weather, 1987 followed a period of very dry weather.</p> <p>Yoxall at risk from any flood exceeding the 1 in 5 year return period. 105 properties lie in 1 in 100 year return period flood extent.</p>
64	Marchington	Marchington Brook	Historically	Emma Roberts (Council)	Always been a flooding issue in the centre of the village. Not much can be done here.
65	Denstone	Denstone Brook? Cause i, cause iii, cause iv	Historically	Emma Roberts	Capacity problems with the culvert Historical flooding problems at the Post Office and the Pub (The Tavern)

					Any new developments must not have any runoff as the sewers and culverts are at capacity. Seddon Homes must implement flood attenuation/surface water treatment so paid a farmer to allow them to discharge into his field.
66	Rolleston on Dove	Alderbrook? (Main brook through Rolleston)	July 1983, 19 th June 1987, 1979, June 1988 Recent Years	Rolleston pipelines and flooding records file Emma Roberts	1983: Brookside and Burnside (from backing up of Alderbrook), Alderbrook Close, Station Road, School Lane, Chapel Lane from surface water runoff (??) 1987: Beacon road (#25) photos 1979: Station Road, Beacon Road mainly 1988: School Lane, Chapel Lane Ongoing problem

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Table B4 : Historic Flooding Records along the A38

ID³	Location¹	Watercourse and Cause²	Dates	Source	Comments
67	Outside 50 Lichfield Rd, Branston	Cause iii	19/06/2003 – (21/09/2004)	Highways Agency Records	Blocked drain – passed to NIRU2 to inspect
68	At Branston near the Water Park. On the inlet on the west side at Tame Hill Brook (<i>Tatenhill Brook?</i>)	Cause iii	15/09/2003 – (21/09/2004)	Highways Agency Records	Blocked drainage grill – NISU 2 to attend and investigate
69	Subway at Tatenhill Lane, Branston	Cause iii	19 th and 22 nd Dec 2003 – (21/09/2004)	Highways Agency Records	Blocked drain. Subway became flooded with black water
70	Catholme, Northbound	Cause iii	13 th July and 12 th August 2004 – (21/09/2004)	Highways Agency Records	Blocked gully – passed to LFR ISU2 to attend on 14 th July 2004
71	Barton Turns, northbound, opposite children's nursery	Cause iii	3 rd August 2004 (12/08/2004)	Highways Agency Records	Blocked access grill over the brook
72	Entrance to Water Park up to Tatenhill	Cause iii	25/08/2004	Highways Agency Records	Drains silted up by Water Park Emailed to Area Engineer
73	Lichfield road, Branston	Cause iii	26/08/2004	Highways Agency Records	Gullies blocked
74	Barton Turns	Cause iii	26/10/2004	Highways Agency Records	Rubbish drain needs cleaning
75	Branston Water Park by gravel pit	Cause iii	22/11/2004	Highways Agency Records	Blocked culvert causing gravel pit flooding
76	Nr South Burton junction (64 Lichfield Road)	Cause iii	Approx Autumn 2000	Highways Agency Records	Flooding occurred at property and remedial works carried out by Highways Agency

77	A5121 junction	Cause iii	29/06/2005	Highways Agency Records	Caller rang to report a flooded stretch of road on the A38 just past Morley Tile factory on the northbound carriageway 3/4 mile from the A5121. Flooding is occurring in lane 2, central reservation and the service lane opposite. The caller would like to point out that this flooding occurs every time it rains and is very dangerous to drivers.
78	Barton Turn	Cause iii	24/05/2005	Highways Agency Records	Leaking drain that could be the cause of the flooding problems on the A38. Kevin Williams has checked structures records and confirmed there are no culverts in the area. Drains cleared.
79	Barton Turns	Cause iii	21/06/2005	Highways Agency Records	Culvert grill 60% blocked
80	Clay Mills	Cause iii	29/03/2006	Highways Agency Records	Blocked ditch
81	Stretton	Cause iii	29/08/2006	Highways Agency Records	Side of her garden runs along the A38 - rain water coming off her bungalow goes in to a soakaway which is blocked by tree roots. (She doesn't want her garden dug up) Has spoken to SSWater who can run the water in to the sewer drain and she wants to know if we will pay or can she claim off our insurance.
82	Barton under Needwood	Cause iii	29/01/2007	Highways Agency Records	Trash screen on culvert under A38 blocked

83	Branston Northbound Exit sliproad	Cause iii	13/05/2007	Highways Agency Records	Flood Boards Deployed
84	Branston Northbound.	Cause iii	22/07/2007	Highways Agency Records	Flooding in Lane 1 from heavy rain. Lane closure installed. Sweeper and gullypot attending

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