

SOUTH YORKSHIRE COMMUNITY RISK REGISTER

Edition 7 - November 2011



Introduction

This Community Risk Register is published by South Yorkshire LRF in compliance with the Civil Contingencies Act 2004 and the Civil Contingencies Act 2004 (Contingency Planning) Regulations 2005. It is updated annually. Any queries concerning the Register should be directed in the first instance to: **Contingency Planning, South Yorkshire Police, Europa Link, Sheffield S9 1XX**

The purpose of the Register is to identify possible hazards which could impact on the communities of South Yorkshire, to assess the likelihood of each of these hazards occurring, and to thereby inform contingency planning arrangements within South Yorkshire. Therefore the Register does not include hazards which could not occur in South Yorkshire, such as ship-wrecks, although it does include events which could happen outside South Yorkshire and have an effect on people within South Yorkshire, such as coastal flooding, an interruption to international oil and gas supplies or an overseas disaster involving people from South Yorkshire.

Basic information about each type of hazard (which has been compiled in accordance with national guidelines) is given on **pages 7-18** of this Register. This includes a description of each hazard's potential scale and the likelihood of it occurring in or impacting on the communities of South Yorkshire. Hazards are grouped under the following categories:

Industrial Accidents and Environmental Pollution Incidents	- Hazards SY01 - SY16 on pages 7-9
Transport Accidents	- Hazards SY17 - SY23 on page 10
Severe Weather	- Hazards SY24 - SY26 on page 11
Floods & Inundations	- Hazards SY27 - SY31 on page 12
Structural Failure or Collapse	- Hazards SY32 - SY36 on page 13
Human Health	- Hazards SY37 - SY40 on page 14
Animal Health	- Hazards SY41 - SY42 on page 14
Public Protest	- Hazards SY43 - SY46 on page 15
Industrial Technical Failure	- Hazards SY47 - SY54 on page 16
Business Failure	- Hazards SY55 - SY56 on page 17
International Events	- Hazards SY57 - SY60 on page 17
Other Types of Incident	- Hazards SY61 - SY69 on page 18 (and note on p19)

Reference to the risk of a terrorist or other malicious attack is given under SYT1 "Threat Assessments" on **page 19**.

A summary of changes from last year's edition is given on **page 2**. Details of national guidance and other documents referenced in the compilation of this CRR are also given on **page 2**. A explanation of some technical terms used is given on **pages 3-6**. Further, more detailed, information about each type of hazard is given in an accompanying document: "*Individual Risk Assessments SY01-SY69 & SYT1*", which can be accessed from the South Yorkshire Local Resilience Forum Website. This gives more detailed information on the potential impacts and possible impact-mitigation strategies relating to individual hazards.

NB In this document, descriptions of the scale of each hazard type are not predictions relating to particular incidents or sites, but indicate the potential maximum scale of problems relating to that hazard type, for which relevant organisations should make appropriate plans.

Changes From The Previous Edition Published In 2010

The Risk Register and Individual Risk Assessments are subject to continuing review. Some information contained in earlier editions has therefore now been updated. Minor textual changes have been made to reflect experience or knowledge gained over the past year and to add references to incidents that may have occurred since publication of the previous edition. Significant changes this year are:

- The possible effects of Climate Change have been referenced in risk assessments for SY24 (storms and gales), SY25 (snow and ice), SY 26 (heatwaves), SY27-31 (flooding) and SY50 (drought).
- The likelihood score for SY25 (Snow and Ice), has been raised to 4, raising the overall Risk for this hazard to 12 (High).
- The likelihood score for a building collapse due to non-terrorist causes (SY33) has been raised in line with national guidance. This follows further consideration at national level of statistics relating to events that did not cause significant casualties.
- The possible influences of solar flares and geo-magnetic storms are referenced in SY51 and SY52 (loss of telephone systems) and in SY53 and SY54 (loss of electricity supply) and in SY66 (Failure of Electronic Communications - see below).
- SY66 has been retitled from "Failure of the Internet" to "Failure of Electronic Communications" to reflect wider risks.
- A new hazard - SY69 - Disruption due to Volcanic Ash - has been added following the experiences of recent years.
- The omission of one type event has been explained. (See page 19)

Background Documents Consulted In The Process Of Compiling This Register

The compilation of this Risk Register follows national guidelines and, in particular, guidance cited in the documents listed below. Some of these documents are classified as "restricted" and/or "confidential". These are therefore not available to the public.

- National Resilience Planning Assumptions, 2011 (Cabinet Office, Civil Contingencies Secretariat)
- Local Risk Assessment Guidance 2005, 2006, 2007, 2008, 2009, 2010, 2011 (Civil Contingencies Secretariat)
- Draft Regional Risk Assessment, 2006, 2007, 2008, 2009, 2010 (Government Office for Yorkshire and the Humber)
- Additional Guidance On the Local Risk Assessment, 22 September 2005 (Civil Contingencies Secretariat)
- South Yorkshire Multi-Agency Emergency Planning - List of sites under consideration, August 2005 (SYFRS)
- Civil Contingencies Act 2004, Risk Assessment Guidance, May 2005 (Barnsley MBC)
- Regional Capabilities Mapping Exercise - Report of Results April 2004 (Government Office for Yorkshire and the Humber)
- Emergency Preparedness - Guidance on Part 1 of the Civil Contingencies Act 2004 (HM Government)

Risk Assessment At National (UK Government) Level

The UK Government published the first edition of the publicly-available *National Risk Register* in 2008. This was based on the then *National Security Strategy* - also first published in 2008. The Government continues to monitor the most significant emergencies that the United Kingdom and its citizens could face over the next five years through the *National Risk Assessment*. This confidential assessment is conducted annually and draws on expertise from a wide range of departments and agencies of government. The current *National Risk Register* (published in 2010) reflects the latest iteration of the *National Risk Assessment*.

Both the *National Risk Assessment* and *National Risk Register* are intended to capture the range of emergencies which could result in significant harm to human welfare (eg casualties, damage to property or essential services, disruption to everyday life) and that might

have a major impact on all, or significant parts of, the UK. They may therefore omit hazards or events which would have a more localised impact. The risks at national level cover three broad categories: natural events, major accidents and malicious attacks.

Ratings of Likelihood, Impact and Overall Risk

For each type of hazard, likelihood, impact and overall risk ratings have been assessed. Likelihood ratings for each hazard type are shown on pages 7-19 of this document. Impact and overall risk ratings are shown in the detailed Individual Risk Assessments for each type of hazard. A table summarising the relative overall risk ratings of the various hazards is on page 5 and those with the highest overall risk are summarised on page 6.

"Likelihood" refers to the chances or probability of the event either occurring in or impacting on the communities of South Yorkshire (some events, which may never occur in South Yorkshire, will nevertheless have an impact on people or organisations within South Yorkshire). Likelihood ratings are given on a 1-5 point scale.

"Impact" refers to the scale of the impact upon people or organisations within South Yorkshire. Impact ratings are given on a 1-5 point scale after assessing the scale of the impact across four categories: health, social, environmental and economic. Impact ratings across each category are given in the Individual Risk Assessment for each type of hazard. These are combined to give an overall (or "average") impact rating.

"Overall Risk" is obtained by multiplying ratings for likelihood and impact together as shown on the chart below, producing a rating on a 1-25 point scale. In this way a high-probability but low-impact event may be compared to a low-probability but high-impact event. Events which are both high in impact and high in probability are regarded as a greater overall risk than events which are low in impact or low in probability. Overall risk categories for each type of hazard are given in the Individual Risk Assessments.

Likelihood

Although some mathematical calculations have been undertaken on the relative likelihoods of different types of events at national level, it would be unwise to interpolate these to a local level, because they essentially refer to rare events for which numerical analyses are often statistically unreliable. The local likelihood descriptors used in this document can best be interpreted as follows:

- | | |
|-----------------|--|
| 1 = Negligible: | It is a conceivable but highly remote possibility. |
| 2 = Rare: | No significant incidents of this type have occurred affecting South Yorkshire, but it is capable of happening. |
| 3 = Unlikely: | Has occurred and is capable of happening again. |
| 4 = Possible: | Has occurred on multiple occasions and is capable of happening again. |
| 5 = Probable: | Has occurred on multiple occasions and is expected to occur in the future. |

Impact

Potential impacts have been assessed in four categories - health, social, environmental, and economic. The following descriptors show the extremes of the rating system used:

5 = "catastrophic" many deaths and injuries, widespread property or infrastructure damage, complete social and economic disruption and widespread and long-term environmental effects

1 = "minor" very few injuries, little disruption, few environmental effects

It should be noted that although the description "minor" is used, this refers to the level of impact on an overall or county-wide basis. It is not intended to diminish the scale of any impact on the lives of individuals.

In some cases, an impact category has been categorised as "0". (Where for instance there may be no human injuries or fatalities arising from an incident of the hazard type, the rating for health impact will be "0".) However, the potential incident will still have an impact in one or more other categories, so an overall impact rating of "0" is not possible.

Impact Assessments And Business Continuity Planning

Potential types of impact associated with each hazard type are shown within the Individual Risk Assessments. These are intended as overall indications only. Detailed impact assessments relating to the activities of individual organisations should be undertaken by each user of the Risk Register. The Business Continuity Plans of individual organisations should therefore be based on detailed analysis of the impacts as they affect the particular organisation and its partners, suppliers and customers, rather than relying solely on the summary assessments in this Risk Register and the Individual Risk Assessments. Further, more specific advice on Business Continuity Planning is available from the Government, local authorities and professional business advisers.

Overall Risk

Overall Risk ratings have been grouped into four categories: "**Low**" equivalent to ratings of 1-5; "**Medium**" equivalent to ratings of 6-9; "**High**" equivalent to ratings of 10-15; and "**Very High**" equivalent to ratings of 16 and over. A table showing the relative overall risks for all hazards is given overleaf. It should be noted that three hazard types are each sub-divided into two categories with differing overall risk ratings and therefore each appears twice in the table.

SY24 (High Winds) is divided into "widespread gales" and "localised storms"

SY36 (Dam Failures) is divided into "dambursts" - ie total failure - and "overtopping"

SY67 (Tidal Flooding) is divided into those floods which directly affect areas of South Yorkshire and those that do not reach inland as far as South Yorkshire, but which nevertheless will create consequential impacts on South Yorkshire

OVERALL RISK TABLE - 2011

The Overall Risk Score (Impact x Likelihood) is shown in the top left-hand corner of each cell

↑ Impact	5	5 SY01, SY03 SY36(<i>Damburst</i>)	10	15	20	25
	4	4 SY06, SY10	8 SY07, SY08 SY27 SY67(<i>SYorks</i>)	12 SY28, SY67(<i>ECoast</i>)	16 SY29	20 SY38
	3	3 SY11, SY48	6 SY09, SY18, SY22 SY36(<i>Overtopping</i>) SY68	9 SY42, SY43, SY47 SY53, SY54	12 SY25	15 SY13, SY15 SY30, SY31
	2	2 SY04, SY05 SY49	4 SY19, SY23 SY33, SY44 SY50, SY51	6 SY21, SY24(<i>Gales</i>) SY26, SY39, SY58 SY62, SY66, SY69	8 SY16, SY24(<i>Storm</i>) SY57, SY63	10 SY12, SY20 SY41
	1	1 SY02, SY64	2 SY17, SY34 SY56	3 SY32, SY52 SY55, SY59 SY60, SY65	4 SY35, SY46 SY61	5 SY40, SY45
↓ Likelihood	1	2	3	4	5	

Overall Risk - Key	Low	Medium	High	Very High
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Notes: SYT1 (Threat Assessment - Terrorism) is not shown on the above table (following Government guidance)
 SY37 (Flu Epidemic) is not shown as it is now included in SY38 (Pandemic Flu)
 SY14 (Land Contamination) is not shown as it is covered by SY01-11, SY16, SY22 & SY23

Relative Overall Risk - The Highest Risks

The table of ratings shows that most of the hazard types which face South Yorkshire fall into the categories of "Low" or "Medium" overall risk. Only eleven categories of hazard occurring in South Yorkshire, covering six different types of hazard (flu, flooding, pollution, snow and ice, contamination of food supplies, transport accidents, animal diseases) have an **Overall Risk rating of 10 or higher - these are thus the highest risks which South Yorkshire faces. They are:**

<i>Pandemic flu (Hazard SY38)</i>	<i>Overall Risk Rating 20</i>
<i>Major local fluvial flooding (Hazard SY29)</i>	<i>Overall Risk Rating 16</i>
<i>Pollution of controlled water (Hazard SY13)</i>	<i>Overall Risk Rating 15</i>
<i>Major air quality incident (Hazard SY15)</i>	<i>Overall Risk Rating 15</i>
<i>Local fluvial flooding (Hazard SY30)</i>	<i>Overall Risk Rating 15</i>
<i>Localised flash flooding (Hazard SY31)</i>	<i>Overall Risk Rating 15</i>
<i>Low temperatures and heavy snow (Hazard SY25)</i>	<i>Overall Risk Rating 12</i>
<i>Major fluvial flooding (Hazard SY28)</i>	<i>Overall Risk Rating 12</i>
<i>Contamination of food supplies (Hazard SY12)</i>	<i>Overall Risk Rating 10</i>
<i>Major incident on motorway/trunk road (Hazard SY20)</i>	<i>Overall Risk Rating 10</i>
<i>Outbreak of non-zoonotic notifiable animal disease (Hazard SY41)</i>	<i>Overall Risk Rating 10</i>

In addition, Major Coastal Flooding (Hazard SY67) also has an Overall Risk Rating of 12. However, this rating applies to a flood directly affecting areas beyond South Yorkshire. Although this would cause significant disruption to South Yorkshire, the risk of tidal flooding actually reaching as far inland as South Yorkshire itself is considered to be lower - due primarily to the lower likelihood of such events.

Thus the highest risks which South Yorkshire is considered to face (and for which organisations are advised to plan) are the threat of pandemic flu and the threat of major local fluvial flooding. This is because they are both regarded as very likely to happen and if they do happen to have a very large impact. The assessment of pandemic flu is in line with national assessments. Assessments of local flooding risks were revised in the light of the events of June 2007 and the impacts (particularly social and economic) they caused and further consideration of changes in historical trends in climate and land-use.

Individual Risk Assessments

The Individual Risk Assessments linked to this Community Risk Register are in a standard format using categories of information specified in national guidance. As with the Register itself, these are subject to review on a regular basis. A publication history and the date of the next update are shown on the summary sheet at the front of each Individual Risk Assessment.

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Industrial Accidents and Environmental Pollution Incidents			
SY01	Major fire or explosion at a gas terminal as well as LPG, LNG, and other gas onshore feedstock pipeline and flammable gas storage sites	Effects up to 3km around site causing up to 500 fatalities and up to 1500 casualties. Gas terminal event likely to be of short duration once feed lines are isolated: event at a storage site could last for days if the explosion damaged control equipment.	Negligible
SY02	Fire or explosion at a gas terminal or pipeline or flammable gas storage site.	Effects up to 3km around site causing up to 10 fatalities and up 100 casualties. Gas terminal event likely to be of short duration once feed lines are isolated, event at a storage site could last for days if the explosion damaged control equipment.	Negligible
SY03	Major fire or explosion at a fuel distribution site and tank storage of flammable or toxic liquids	Effects up to 3km around site causing up to 150 fatalities and up to 2000 casualties. Explosions would cause primarily crush/cuts and bruise type injuries, as well as burns; fires would cause predominantly burn injuries.	Negligible
SY04	Fire or explosion at an onshore fuel pipeline	Effects up to 1km around site causing up to 100 fatalities and up to 500 casualties. Explosions would cause primarily crush/cuts and bruise type injuries, as well as burns; fires would cause predominantly burn injuries.	Negligible
SY05	Fire or explosion at a natural gas pipeline	Effects localised to site causing up to 200 fatalities and up to 200 casualties. Explosions would cause primarily crush/cuts and bruise type injuries, as well as burns; fires would cause predominantly burn injuries.	Negligible

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Industrial Accidents and Environmental Pollution Incidents			
SY06	Major toxic chemical release	Major effects present up to 10km from site, with possibly up to 2,000 fatalities and 10,000 casualties.	Negligible
SY07	Toxic chemical release	Major effects present up to 3km from site, with possibly up to 50 fatalities and 2,000 casualties.	Rare
SY08	Major industrial accident involving toxic chemical release	Major effects present up to 3km from site, with possibly up to 30 fatalities and 250 casualties.	Rare
SY09	Industrial accident involving toxic chemical release	Major effects present up to 1km from site, with possibly up to 10 fatalities and 100 casualties.	Rare
SY10	Accidental release of radioactive material from incorrectly handled or disposed of sources	Wide area and possibly long-term contamination with up to 5 fatalities and 100 contaminated people requiring medical monitoring. Many worried people may be present at hospitals. Long-term remedial action required.	Negligible
SY11	Biological substance release from control measure failure.	Up to 10 fatalities and serious injuries or offsite impact leading to up to 1,000 casualties.	Negligible
SY12	Contamination of food supplies	Possible fatalities, illness and long-term public concern. Food production/marketing implications depending on scale and area affected. Consumer confidence affected leading to lost markets or individual stockpiling.	Probable

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Industrial Accidents and Environmental Pollution Incidents			
SY13	Major pollution of controlled waters	Persistent and/or extensive effect on water quality, major damage to aquatic ecosystems, closure of potable abstraction point(s), major impact on amenity value, possible serious impact on human health.	Probable
SY14	Major land contamination incident (Withdrawn as a separate category - see SY01-11, SY16, SY22 & SY23)	Persistent and/or extensive effect on land quality, major damage to terrestrial ecosystems, property, major impact on amenity value. Damage to agriculture/commerce. Possible serious impact on human health.	Refer to SY01-11, SY16, SY22 & SY23 for likelihoods of hazards that could result in this.
SY15	Major air quality incident (Note - the impact of volcanic ash is now assessed as a separate Hazard - SY69)	Persistent and/or extensive effects on air quality, major damage to local ecosystem, major impact on amenity value. Serious impact on human health.	Probable
SY16	Industrial explosions and major fires	A large fire or explosion in industrial or commercial premises necessitating a major response by the emergency services and potentially causing a number of serious injuries or fatalities.	Possible

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Transport Accidents			
SY17	Rapid accidental sinking of passenger vessel on inland waterway.	A major incident involving loss of life and casualties.	Rare
SY18	Major aviation accident , possibly over major conurbation	Causing up to 800 fatalities and up to 300 casualties.	Rare
SY19	Aviation accident	Causing up to 50 fatalities and up to 250 casualties and possibly other significant colateral damage.	Rare
SY20	Major local incident on motorway(s) and/or major trunk road(s)	Multiple vehicle incident causing up to 10 fatalities and up to 20 casualties, closure of lanes on carriageways causing major disruption and delays.	Probable
SY21	Railway accident	Up to 30 fatalities and up to 100 casualties. Possible loss of freight. Major disruption to rail services.	Unlikely
SY22	Major local accident involving transport of hazardous chemicals	Up to 50 fatalities and up to 500 casualties. The extent of the impact would depend on substance involved, quantity, nature and location of accident.	Rare
SY23	Major local accident involving transport of fuel or explosives	Up to 30 fatalities and up to 20 casualties within vicinity of accident or explosion. Area would require evacuating up to 1km radius depending on substance involved. Potential release of up to 30 tonnes of liquid fuel into local environment, watercourses etc. Large quantities of fire fighting foam would impact on environment. Roads and access routes impassable for a time. Emergency access into/out of large populated areas difficult or impossible.	Rare

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Severe Weather			
SY24	Storms and gales	Storm force winds affecting most of the region for at least 6 hours. Most lowland areas experience mean speeds in excess of 55 mph with gusts in excess of 85 mph. Winds of this strength have the potential to cause structural and environmental damage and adverse effects on transport and other activities. A localised windstorm ("tornado") could also occur affecting a very limited area.	Unlikely (Widespread gales) Possible (Local windstorm)
SY25	Low temperatures and heavy snow	Snow falling and lying over most of the county for at least one week. Most lowland areas experience some snow falls in excess of 10cm, some drifts in excess of 50cm, and a period of at least 7 consecutive days with daily mean temperatures below -3°C. Snow and low temperatures to this extent would cause major problems for transport and other activities, with consequent effects on economic and social activity.	Possible
SY26	Heat wave	Daily maximum temperatures above 29°C and minimum nighttime temperatures above 15°C over most of the region for at least 5 consecutive days.	Unlikely

Please note: "Drought" is considered at SY50 under "Industrial Technical Failures"

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Floods & Inundations			
SY27	Major fluvial flooding of >10,000 properties or of a single urban area.	The sudden flooding of 10,000+ properties or a single large urban area as a result of flood defence failure.	Rare
SY28	Major fluvial flooding of >10,000 properties resulting from sustained rainfall.	A sustained period of heavy rainfall extending over two weeks, or similar amounts falling over a shorter time, perhaps combined with snow melt, resulting in steadily rising river levels over most of the country affecting all regions. Flooding of 10,000+ properties for 7-21 days.	Unlikely
SY29	Major fluvial flooding of 1,000-10,000 properties resulting from sustained rainfall or snow melt.	A sustained period of heavy rainfall extending over two weeks, or similar amounts falling over a shorter time, perhaps combined with snow melt, resulting in steadily rising river levels over the Yorkshire and Humber region. Localised flooding of more than 1,000 and less than 10,000 properties.	Possible
SY30	Local fluvial flooding of 100-1,000 properties resulting from sustained rainfall or snow melt	A sustained period of heavy rainfall extending over two weeks, or similar amounts falling over a shorter time, perhaps combined with snow melt, resulting in steadily rising river levels over the Yorkshire and Humber region. Localised flooding of more than 100 and less than 1,000 properties.	Probable
SY31	Localised sudden onset "flash" flooding of 100-1,000 properties	Very heavy localised rainfall leading to sudden-onset "flash" flooding of 100-1,000 properties with potentially no warning.	Probable

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Structural Failure or Collapse			
SY32	Land movement	Earth tremors and landslides, including those affecting slag and spoil heaps and other "made" ground.	Unlikely
SY33	Building collapse (non-industrial, non-terrorism cause)	Collapse of a single large building or building complex, due to structural failure or internal explosion (eg of gas main). Potential for a number of persons to be trapped or missing. Fatalities dependent on the size and construction of building and occupation rates.	Rare
SY34	Bridge collapse (non-terrorism cause)	Collapse of a road or railway bridge due to structural failure, collision etc Initial collapse could cause small numbers of fatalities and/or casualties including trapped and missing, necessitating extensive search and salvage operations. Closure of the affected route(s) could last several months necessitating extensive diversions and re-routing.	Rare
SY35	Tunnel collapse	Collapse of non-rail tunnel, sewer or mine. Potential for a number of persons to be trapped or missing. Disconnection of essential services over localised area.	Possible
SY36	Major reservoir dam failure or overtopping	Dam failure or reservoir overtopping due to weather, internal erosion or structural failure ("failure" signifies a structural collapse of the dam, from whatever cause, "overtopping" signifies the unplanned spillage of water over the dam wall, which can lead to erosion of the structure and subsequent partial or total "failure").	Negligible (failure) Rare (overtopping)

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Human Health			
SY37	Influenza type disease (Epidemic) (Withdrawn as a separate category - see SY38)	A serious epidemic of much greater severity than the usual seasonal flu.	See SY38
SY38	Influenza type disease (Pandemic)	A serious epidemic/pandemic of much greater severity than the usual seasonal flu.	Probable
SY39	Widespread outbreak of infectious disease.	An outbreak of an infectious or easily transmissible disease, such as SARS, causing between 250 and 2,000 casualties which are not confined to one locality.	Unlikely
SY40	Localised outbreak of infectious or easily contractable disease.	Localised outbreak of a disease eg viral meningitis, legionaire's disease, mumps, measles.	Probable
Animal Health			
SY41	Non-zoonotic notifiable animal disease	Outbreak of non-zoonotic notifiable animal disease resulting in the slaughter of livestock and/or the culling of other animals/birds for welfare reasons.	Probable
SY42	Zoonotic notifiable animal disease	Outbreak of zoonotic notifiable animal disease, eg Highly Pathogenic Avian Influenza (HPAI), rabies, West Nile Virus	Unlikely

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Public Protest			
SY43	Large scale public protest	Protest involving tens of thousands of people, including a hard core of 2,000 protestors, causing physical damage, requiring a nationally co-ordinated Police response via PNICC and ACPO.	Unlikely
SY44	Localised public protest	Localised public protest. Up to 1,000 protestors with hard core of up to 500 protestors, possibly causing physical damage requiring Police mutual aid via PNICC and ACPO.	Possible
SY45	Prison disturbances or strike by prison staff	Disturbance, possibly with casualties, or strike at prison or other detention centre requiring Police and other external support and Police mutual aid via PNICC and ACPO.	Probable
SY46	Targeted disruptive protest, eg fuel protest, strike in essential or emergency service	Nationwide co-ordinated protest that could generate shortages of essential supplies lasting up to 1 week or withdrawal of essential or emergency service.	Possible

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Industrial Technical Failure			
SY47	Technical failure of upstream (offshore) oil / gas network leading to a disruption in upstream oil and gas production	Technical failure leading to catastrophic accident destroying all or parts of an offshore facility and taking 6 months to restore normal levels of service. Impact on power generation possibly prompting rota disconnections of electricity supply to domestic and commercial customers.	Unlikely
SY48	Failure of water treatment works	Unplanned loss of supply of piped water to 10-50,000 consumers for up to 72 hours.	Negligible
SY49	Failure of sewage treatment works	Unplanned loss of sewage services to 10-50,000 consumers for up to 72 hours.	Negligible
SY50	Drought	Inability of water supply companies to meet consumer demand due to reduced levels of water supplies.	Rare
SY51	Loss of regional telephone services	Loss of service across a UK region for up to 5 days.	Rare
SY52	Loss of local telephone services	Loss of service to up to 100,000 subscribers for up to 5 hours.	Unlikely
SY53	Technical failure of national electricity network	Sudden power cut affecting the whole of the UK occurring during working hours and lasting 24 hours.	Unlikely
SY54	Technical failure of electricity network across the Y&H region	Sudden power cut affecting the whole of the Yorkshire and Humber region occurring during working hours and lasting 24 hours.	Unlikely

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Business Failure			
SY55	Failure of cash supply	Strike action or other business failure affecting the dominant supplier of cash across the Y&H region.	Unlikely
SY56	Unplanned closure of a major hospital	The unplanned closure of a major hospital due to circumstances beyond the control of the hospital management, resulting in the cancellation or postponement of routine activities and necessitating the transfer of emergency and A&E services to other locations.	Negligible
International Events			
SY57	International disruption to oil supply	Major disruption resulting in loss of upwards of 2 million barrels per day from the international market.	Possible
SY58	Political, environmental or economic situation resulting in influx of UK Nationals	Up to 200,00 people (nationally) claiming a right to remain in UK, in a 4 – 6 week period (Equivalent pro-rata to 5,000 coming to South Yorkshire)	Unlikely
SY59	Disaster overseas affecting SY residents	Over 10 fatalities and/or casualties to people normally resident in South Yorkshire from eg a transport incident, natural disaster, hotel fire or terrorist attack in an overseas location.	Unlikely
SY60	Major natural disaster overseas affecting people with connections to South Yorkshire	Over 50 SY-related deaths and/or over 200 SY-related casualties from eg a tsunami or earthquake in an overseas location.	Unlikely

Risk No	Hazard Category	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
Other Types of Incident			
SY61	Extensive fire in peat moor, forest or underground gas/coal	Extensive fire with Fire Service in attendance for more than 60 hours continuously	Possible
SY62	Crowd-related disasters	Multiple fatalities and/or ten or more casualties caused by uncontrolled movement within a crowd at a public event.	Unlikely
SY63	Explosion or discovery of previously unknown wartime munitions	Discovery or explosion necessitating significant local evacuation and/or causing fatalities/casualties.	Possible
SY64	Impact by meteoroid or space debris	The consequences of such an impact can range from negligible, through minor property damage to catastrophic - see Risk Assessment	Negligible
SY65	Major criminal incident	Major criminal incident, such as siege situation, mass murder, or escape from custody or secure unit causing widespread or prolonged disruption to the community.	Unlikely
SY66	Failure of electronic communications	Large scale failure of electronic communications resulting in prolonged and extensive disruption	Unlikely
SY67	Major Coastal Flooding	Major coastal flooding affecting the East Coast of England (and tidal estuaries) due to a combination of tidal surge and weather.	Unlikely (Rare if directly affecting S Yorkshire)
SY68	Large-scale influx of people from other parts of the UK	Large-scale influx of people into South Yorkshire as a result of a catastrophic incident elsewhere in the UK.	Rare
SY69	Disruption due to volcanic ash	Large scale disruption due to airborne volcanic ash	Unlikely

Threat Assessments			
SY Risk No	Definition	Description of potential scale of hazard and impact	Likelihood of event occurring in or impacting on South Yorkshire
SYT1	Terrorist incident or other malicious or deliberate attack	Deliberate attack or sabotage causing fatalities, casualties, environmental damage or social and/or economic disruption. The Government first published a National Risk Register and a National Security Strategy in 2008, and a Counter-Terrorism Strategy (CONTEST) in 2009. All these have since been updated and republished. The most recent versions are available via Government websites.	As given in published national assessments

Note on planning for other type of event not mentioned in the CRR

Members of the public have raised concerns about LRF planning for "economic collapse" which is not covered by the CRR. An explanation of why this has been omitted is given below.

Hazard Category	Explanation for Omission from SY Community Risk Register
"Economic Collapse"	This type of event is not covered by the terms of the Civil Contingencies Act 2004 and is the subject of separate areas of policy-making at both national and local levels. Anyone concerned is advised to contact the relevant government or local authority departments directly.